

19990124.qrp v01\_n346.qrl.990124

Date: Sun, 24 Jan 1999 19:03:22 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1346

QRP-L Digest 1346

Topics covered in this issue include:

- 1) [30678] MFJ filter, keyer, dead rig SOLD  
by Jerry Albertin <jalbertin@juno.com>
- 2) [30679] Very High Speed CW  
by dave\_epps@juno.com
- 3) [30680] QRP RTTY on a Chip  
by dave\_epps@juno.com
- 4) [30681] Am I still on the list? And 10 Meters is great!  
by MKBalvanz@aol.com
- 5) [30682] FS: TAC-1 (Make Offer)  
by "Tim Cook" <timcook@erinet.com>
- 6) [30683] Son of FireBall:minor glitch  
by William-McShan@ouhsc.edu (Mike McShan)
- 7) [30684] == ANYONE USING AN ASTRON POWER SUPPLY? ==  
by alfa33@scn.org
- 8) [30685] How about this??  
by vlantz@juno.com
- 9) [30686] Re: Happy Day  
by "John J. McDonough" <jjmcd@tm.net>
- 10) [30687] Re: Mosley 33 jr.  
by "Radman" <radman@best.com>
- 11) [30688] ZL9CI  
by Bruce Rattray <rattray@gpfn.sk.ca>
- 12) [30689] Re: Happy Day  
by "John J. McDonough" <jjmcd@tm.net>
- 13) [30690] Re: software (Design Works Lite)  
by "Radman" <radman@best.com>
- 14) [30691] Elmer205: Re SPICE Questions de NA5T  
by Chuck Adams <adams@ticnet.com>
- 15) [30692] TenTec 1340 Question from ???  
by Chuck Adams <adams@ticnet.com>
- 16) [30693] WTB: Ailtech 136 Precision Receiver Manual  
by Chris Trask <ctrask@primenet.com>
- 17) [30694] Re: Short Vertical  
by W6RCecila <w6rca@ibm.net>
- 18) [30695] Re: Antenna ??'s  
by W6RCecila <w6rca@ibm.net>
- 19) [30696] ZL9CI

- by "Ron Polityka" <wb3aal@talon.net>
- 20) [30697] New Products: G4ZPY Straight Keys  
by "Marshall Emm" <mgemm@mtechnologies.com>
- 21) [30698] League gets 5-MHz Experimental license  
by "Steve/n0tu" <n0tu@webaccess.net>
- 22) [30699] RE: Lack of controversy..  
by aweiss@usd.edu (Ade Weiss W0RSP)
- 23) [30700] Re: CHANGING CALL SIGNS  
by N7YA@aol.com
- 24) [30701] Re: software  
by "Vincent Ferme" <vferme@sprint.ca>
- 25) [30702] ZL9CI on 20 QRP  
by SABorns@aol.com
- 26) [30703] Re: Lack of controversy..  
by N7YA@aol.com
- 27) [30704] Just doing the Ham thing!  
by Ed Loranger <we6w@juno.com>
- 28) [30705] Re: Spice Demo  
by Jeff Furman <jfurman@ocs.net>
- 29) [30706] Re: 2n2222 projects... where?  
by Laurentiu Alexe <lalexe@dnt.ro>
- 30) [30707] Problem with voltage reg.  
by "S. M. Whitehouse" <ke4yh@email.msn.com>
- 31) [30708] Help - Reverse TVI  
by David Gauding <david.gauding@bbs.galilei.com>
- 32) [30709] WTB  
by Duane Alles <ad6he@yahoo.com>
- 33) [30710] CLASSIC RADIO  
by DONALD DORN <ddorn@cwis.net>
- 34) [30711] Re: Antenna ??'s  
by Wa2eaw@aol.com
- 35) [30712] Index Labs QRP+ troubleshooting help needed  
by Jim <kj5tf@madisoncounty.net>
- 36) [30713] swl-40 FS  
by James Skalski <jskalski@buffnet.net>
- 37) [30714] Re: CLASSIC RADIO  
by "Dan Romanchik" <danr@izzy.net>
- 38) [30715] F.S.--qrp etc. list  
by K4NK@aol.com
- 39) [30716] FS Yaesu Manpak/tuner  
by James Skalski <jskalski@buffnet.net>
- 40) [30717] Noise in Receivers (Was OLD RADIO OR NEW?) HELP!  
by "James R. Duffey" <jamesd1@flash.net>
- 41) [30718] Re: == ANYONE USING AN ASTRON POWER SUPPLY? ==  
by Dave Redfearn <n4elm@texoma.net>
- 42) [30719] RE: Cecil's Short Vertical/ Folded Unipole  
by "Larry Cruise" <aa5ta@texasonline.net>
- 43) [30720] OKAY Stupid Newbie ??

- by cd25d@clnk.com (Bill Slater)
- 44) [30721] Audio problems on MFJ Rigs??  
by Gary Slagel <gdslagel@yahoo.com>
- 45) [30722] Fw: INTERNATIONAL LIGHTHOUSE/LIGHTSHIP WEEKEND 1999  
by "Charles R. Mabbott Sr." <crmabbott@mediaone.net>
- 46) [30723] Re: Index Labs QRP+ troubleshooting help needed  
by "Bill Todd" <bill@willapabay.org>
- 47) [30724] FS RCA 40673  
by James Skalski <jskalski@buffnet.net>
- 48) [30725] RE: Classic Radios  
by Mike Stapp <stapp001@gold.tc.umn.edu>
- 49) [30726] KD1JV??  
by "Tim Cook" <timcook@erinet.com>
- 50) [30727] Re: OKAY Stupid Newbie ??  
by "Scott Rosenfeld [N7JI]" <ham@w3eax.umd.edu>
- 51) [30728] W1FB Universal DC Rcvr  
by AA3BP@aol.com
- 52) [30729] Metal Chassis cutting, how do you;  
by "Roger A. McCarty" <rmccarty@earthlink.net>
- 53) [30730] Re: Metal Chassis cutting, how do you;  
by James Skalski <jskalski@buffnet.net>
- 54) [30731] Re: OKAY stupid newbie  
by w4pj@w4bkx.ampr.org
- 55) [30732] Re: KD1JV??  
by "Radman" <radman@best.com>
- 56) [30733] Re: Metal Chassis cutting, how do you;  
by Rich Mulvey <mulveyr@iname.com>
- 57) [30734] Bugs and Keys....new list.  
by N7YA@aol.com
- 58) [30735] Re: Noise in Receivers (Was OLD RADIO OR NEW?) HELP!  
by "J. W. (Dub) Thornton" <dub@oklahoma.net>
- 59) [30736] RE: HW-9 BCI Bleed Through on 80/40/30 \*\*\*\*\*SOLVED\*\*\*\*\*  
by Sam Billingsley <SBillingsley@usaninc.com>
- 60) [30737] Re: FS Yaesu Manpak/tuner  
by James Skalski <jskalski@buffnet.net>
- 61) [30738] Re: 1999 QRP-L Heathkit Hot Water Sprint (HHWS)<<<< Reminder>>>>  
by Ed Loranger <we6w@juno.com>
- 62) [30739] FS: 1995 QRP Quarterly's \$12.-  
by "Bill Legge, NT1R" <wlegge1@maine.rr.com>
- 63) [30740] [ FYBO ] Winter Gear List for Field Ops  
by Joe Gervais <vole@primenet.com>
- 64) [30741] QRP Kit Project  
by Michael Gray Anthony <mganthon@unity.ncsu.edu>
- 65) [30742] Re: Metal Chassis cutting, how do you;  
by Ed Loranger <we6w@juno.com>
- 66) [30743] HW contest  
by k5zty@juno.com
- 67) [30744] Re: OKAY Stupid Newbie ??

- by Russ Hines <radioruss@fuse.net>
- 68) [30745] QRP Quarterly's are spoken for.  
by "Bill Legge, NT1R" <wlegge1@maine.rr.com>
- 69) [30746] More on Short Verticals  
by W6RCecila <w6rca@ibm.net>
- 70) [30747] FS Homebrew 40m rig  
by James Skalski <jskalski@buffnet.net>
- 71) [30748] RE: [HomeBrew] Metal Chassis cutting, how do you;  
by "Ed Tanton" <n4xy@mindspring.com>
- 72) [30749] PSK31  
by Roger Hightower <n7kt@earthlink.net>
- 73) [30750] Not receiving posts too!  
by K2UD@aol.com
- 74) [30751] FS: Tokyo HyPower HX-240 VHF->HF transverter  
by "Caitlyn M. Martin" <cait.martin@ibm.net>
- 75) [30752] Re: Y2K Y1K Y0K  
by Donald E Sanders <w4bws@juno.com>
- 76) [30753] Re: PSK31  
by flydnq7x@primenet.com (Floyd Smithberg)
- 77) [30754] HHWS Scores Dont forget ??? also need QRP-L# if you have one?  
by Patrick M Kvitkauskas <pmk@juno.com>
- 78) [30755] Info needed on PC-9000 HF xcvr  
by Neil Klagge <w0yse@juno.com>
- 79) [30756] RE: PSK31  
by "Bob Follett" <bfollett@ditell.com>
- 80) [30757] More on short verticals  
by W6RCecila <w6rca@ibm.net>
- 81) [30758] Re: OKAY Stupid Newbie ??  
by af852@rgfn.epcc.edu (William R Colbert)
- 82) [30759] WTB: Wilderness Sierra  
by "Alan Fryer" <n3bj@hotmail.com>
- 83) [30760] Re: More on Short Verticals  
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
- 84) [30761] FS: 38 Special + Doug Hauff Case + Tick 3  
by "Jerry McCollom W0MC" <w0mc@hotmail.com>

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Date: Sat, 23 Jan 1999 19:00:31 EST  
From: Jerry Albertin <jalbertin@juno.com>  
To: qrp-l@lehigh.edu  
Subject: [30678] MFJ filter, keyer, dead rig SOLD  
Message-ID: <19990123.185910.4967.0.JAlbertin@juno.com>

Thanks to all who responded, the MFJ accessories and dead rig have found  
a new home

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or call Juno at (800) 654-JUNO [654-5866]

-----  
Date: Sat, 23 Jan 1999 16:16:42 -0800  
From: dave\_epps@juno.com  
To: qrp-l@lehigh.edu  
Subject: [30679] Very High Speed CW  
Message-ID: <19990123.161648.-449435.13.dave\_epps@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

HSCW like the vhf meteor scatter guys use is programmed into  
K1EL's K-10 keyer chip. Very interesting.  
How do you read it? Some of the meteor scatter guys tape record it and  
then  
play it back with the tape drive motor slowed down. K-10 info at.  
<http://members.aol.com/k1el/index.html>  
dave ab5pc morro bay, ca.

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or call Juno at (800) 654-JUNO [654-5866]

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Date: Sat, 23 Jan 1999 16:10:05 -0800  
From: dave\_epps@juno.com  
To: qrp-l@lehigh.edu  
Subject: [30680] QRP RTTY on a Chip  
Message-ID: <19990123.161648.-449435.12.dave\_epps@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

K1EL who has given us the great K8+ and K9 keyers is coming out with  
the K-28 which is a standalone rtty one a chip with 2 line readout.  
I would sure like to put it in the K-2. Info at  
<http://members.aol.com/K1EL/index.html>  
dave ab5pc fresno, ca.

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or call Juno at (800) 654-JUNO [654-5866]

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Date: Sat, 23 Jan 1999 19:54:34 EST  
From: MKBalvanz@aol.com  
To: qrp-1@lehigh.edu  
Subject: [30681] Am I still on the list? And 10 Meters is great!  
Message-ID: <b6e591fb.36aa6f4a@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit  
Content-Transfer-Encoding: 7bit

Gang,

Ten has been really great from the midwest Friday and Saturday. Stations booming in from all over the place, several VEs and some South American countries can be heard. Friday night the band didn't close until after 0000Z (6:00pm local time) to 6 land, I could hear the W6WX beacon on 28.200 at an S9+ for the 100 watt level and down from there, I could still make out the 100mW level quite well at 2330Z. And I made my first CW qso today! I starting to get hooked on it too, it's a lot of fun!

BTW, I haven't got any posts the last day or so, has nothing been posted, the server down or has my name been lost? Anyone know?

Thanks everyone!  
Matthew, KC0AYG Ames, IA

-----  
Date: Sat, 23 Jan 1999 20:01:29 -0500  
From: "Tim Cook" <timcook@erinet.com>  
To: "QRP" <qrp-1@lehigh.edu>  
Subject: [30682] FS: TAC-1 (Make Offer)  
Message-ID: <030701be4735\$13a56dc0\$2d765acf@timcook.erinet.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

S&S Engineering TAC-1 40 Meter QRP rig for sale. Looks and works great with all documentation. Synthesized, digital readout, Full 5 watts out . asking \$150

or might consider trades qrp/2m mobile/etc..... MAKE OFFER  
Please email direct if interested

Thanks  
Tim  
NZ8J

-----  
Date: Sat, 23 Jan 1999 19:40:44 -0600 (CST)  
From: William-McShan@ouhsc.edu (Mike McShan)  
To: qrp-l@Lehigh.EDU  
Subject: [30683] Son of FireBall:minor glitch  
Message-ID: <v01540b01b2cfd5c3699c@[32.100.137.98]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hi gang,

Any 28.060 MHz oscillator payments I receive in the next 3-4 days will probably not be sent until the end of the week. I ruptured a disk in my back yesterday and am moving slow...actually, hardly at all. Sorry for the delay.

Mike N5JKY  
Edmond, OK

-----  
Date: Sat, 23 Jan 1999 19:45:52 -0600  
From: alfa33@scn.org  
To: QRP-L@lehigh.edu  
Subject: [30684] == ANYONE USING AN ASTRON POWER SUPPLY? ==  
Message-ID: <199901232046.0AA07724@smtp1.cei.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Content-Transfer-Encoding: 7BIT

Hello, again --

I would like to hear from anyone out there who is using one of the ASTRON "switching" power supplies to power a QRP rig.

I have some concerns about the noise that might be generated by such a supply and what the effect might be on CW reception.

I've noticed that ASTRON has been advertising in the ham publications for quite some time now, so I can only assume that they make a product that is well suited for HF use. Still, I would like to hear from folks who have actually used one of the ASTRON supplies on HF.

73,

Jacob Worthington  
AA4FM

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Date: Fri, 22 Jan 1999 20:46:25 -0600  
From: vlantz@juno.com  
To: qrp-l@Lehigh.EDU  
Subject: [30685] How about this??  
Message-ID: <19990123.194147.9846.0.VLantz@juno.com>

I read today a message about a short vertical. instead of radials, can one use a large sheet of metal?

I got this idea from a mobile home we use to live in. It has a metal roof and I would stick a magnet mount antenna on top and it worked great. This was in the days of my CB use when I was working with an emergency communications team in Tucson, AZ.

This would be so great if one of you great minds can figure it out. I would like to get the antenna as close to tuned as possible. This would make a great 10 meter antenna, with a 1/4 wave vertical.

Vann Lantz  
KF4QHJ, AL  
QRP-L #1790, AR QRP #241  
<http://members.xoom.com/VLantz/home.htm>

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or call Juno at (800) 654-JUNO [654-5866]  
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Date: Sat, 23 Jan 1999 20:49:06 -0500  
From: "John J. McDonough" <jjmcd@tm.net>  
To: <Mercxx@aol.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [30686] Re: Happy Day  
Message-ID: <00a301be473b\$c0521540\$010044c0@mdp23b>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

From: Mercxx@aol.com <Mercxx@aol.com>

> I just had to do a little jig. I got my Jersey Fireballs and my G-QRP

hehe - must be the day for it. I got my Fireballs \*AND\* the 28.060  
oscillators in the mail today!

Probably not gonna melt solder this weekend, tho. I don't know if y'all  
remember the fractal antenna discussion earlier in the month. Well, I \*HAD\*  
to go see, and Chip, W1IR, the inventor of the thing, got me on to this  
antenna modeling kick, and it's \*FINALLY\* starting to make some sense.  
Sooo, we gonna be modeling antennas tomorrow and see if it can keep making  
sense!

I gotta come up with some sort of antenna project real soon - it's gotten  
warm and pretty soon all the snow will melt, and we all know you can't put  
up an antenna without snow!

72/73 de WB8RCR <http://users.tm.net/jjmcd/>  
didileydadidah QRP-L #1446 Code Warriors #35

-----  
Date: Sat, 23 Jan 1999 17:52:16 -0800  
From: "Radman" <radman@best.com>  
To: <ratttray@gpfn.sk.ca>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [30687] Re: Mosley 33 jr.  
Message-ID: <199901240148.RAA12549@proxy4.ba.best.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hi Bruce,

Yep, Mosley has a web page:

<http://www.mosley-electronics.com/home.htm> OR, phone:  
1-800-9MOSLEY.

They offer a 30/40M conversion for the 33jr. I own a 33jr (10-15-20) and find it to be a good short-boom performer. Here on the SF peninsula (6-Land), the winds are very moderate and there is no ice. If your wind and/or ice-loading is significant, I'd consult with Mosley to see how they feel about its durability with the 30/40 conversion. It's a well-made product, but not overly beefy, IMO.

GL es 72 - Conrad -- NN6CW

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...does anyone have an address for whoever's handling the 33 jrs?...I'd like to see if they have a 40 mtr add-on...tnx...

...72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886

ARCI#9683 Zombie#272

A-1 Operator Club - 10/10# 944 - Regina,  
Saskatchewan. Canada

"QRP! How sweet it is!"

-----  
Date: Sat, 23 Jan 1999 20:49:38 -0600 (CST)  
From: Bruce Rattray <rattray@gpfn.sk.ca>  
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-l@LeHigh.EDU>  
Subject: [30688] ZL9CI  
Message-ID: <Pine.LNX.3.95.990123204626.9841A-1000000@neale.gpfn.sk.ca>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

...worked him SSB, qrp....5 watts....VE5RC & VE5QRP....14.195...up  
14.227....0234....he's calling CQ and QRZ....

...72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272

A-1 Operator Club - 10/10# 944 - Regina, Saskatchewan. Canada

"QRP! How sweet it is!"

-----  
Date: Sat, 23 Jan 1999 22:01:31 -0500  
From: "John J. McDonough" <jjmcd@tm.net>  
To: <jjmcd@tm.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [30689] Re: Happy Day  
Message-ID: <012a01be4745\$dbf16b20\$010044c0@mdp23b>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Errrrr ... I did it again!

From: John J. McDonough <jjmcd@tm.net>  
>to go see, and Chip, W1IR, the inventor of the thing, got me on

That's N1IR - sorry Chip!

72/73 de WB8RCR <http://users.tm.net/jjmcd/>  
didileydadidah QRP-L #1446 Code Warriors #35

-----  
Date: Sat, 23 Jan 1999 19:05:21 -0800  
From: "Radman" <radman@best.com>  
To: <ntan@crosslink.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [30690] Re: software (Design Works Lite)  
Message-ID: <199901240301.TAA02687@proxy4.ba.best.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Neil,

Browser over to:  
[http://www.capilano.com/html/index\\_other.shtml](http://www.capilano.com/html/index_other.shtml)

You can download a \*free\* 30-day eval of Design Works  
Lite. If you wish to buy, it's only \$39.95. A very  
nice/useful program, IMO :-)

(I'm not related to Capilano, etc...)

GL - 72 - Conrad - NN6CW

\*\*\*\*\*

Hello agn.... Could someone point me to a source for  
freeware using the  
PC for drawing schematics. thanx and Keep it LOW-----Neil  
WA4CHQrp

-----

Date: Sat, 23 Jan 99 19:33:19 -0500  
From: Chuck Adams <adams@ticnet.com>  
To: qrp <qrp-1@lehigh.edu>  
Subject: [30691] Elmer205: Re SPICE Questions de NA5T  
Message-ID: <E104EN3-000292-00@smtp.ticnet.com>

Gang,

Don't know about PSpice, so try this.

In SPICE3 you can do a

plot vdb(3) xlog

and this will cause the x axis to be logarithmic. I would  
guess that other versions of SPICE would allow some mod  
or qualifier to the plotting facility.

As for plotting something like SWR values, again in SPICE3  
versions you can do arithmetic, say

plot sqrt(1.0+x\*x)/sqrt(1.0-x\*x)

where x is ratio that will give you the correct VSWR values.  
I leave it as an exercise for the student to do this. :-)

If anyone is still having a problem after a few days, let me  
know and I'll post an example to the group at large.

The program is very flexible (SPICE3), which is why I prefer  
it over the other ones floating around. Also, the version of  
SPICE that comes with LINUX is SPICE2G6, but on the web  
is a version that should work with LINUX and hopefully I'll  
have a pointer to it on the web page in a few days. I'm working

on a chart and links as we speak. It takes a lot of time to surf the web and eliminate all the old broken links. The web is dynamic. Here today - gone tomorrow seems to be the web motto.....

FYI

--

Chuck Adams K5FO adams@ticnet.com CP-60  
<http://www.ticnet.com/k5fo>

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Date: Sat, 23 Jan 99 19:35:56 -0500  
From: Chuck Adams <adams@ticnet.com>  
To: qrp <qrp-1@lehigh.edu>  
Subject: [30692] TenTec 1340 Question from ???  
Message-ID: <E104EPa-0002AG-00@smtp.ticnet.com>

Will the person who was asking about the 1340 please resent the email. My mistake in deleting when I meant to reply. :-)

--

Chuck Adams K5FO adams@ticnet.com CP-60  
<http://www.ticnet.com/k5fo>

-----

Date: Sat, 23 Jan 1999 21:06:00 -0700 (MST)  
From: Chris Trask <ctrask@primenet.com>  
To: homebrew@qsl.net, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [30693] WTB: Ailtech 136 Precision Receiver Manual  
Message-ID: <Pine.BSI.3.96.990123210306.10155F-1000000@usr09.primenet.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I'm in need of a manual for the Ailtech Model 136 Precision Test Receiver. Just bought a working unit, and now can't locate a manual. I've tried Ed Matsuda and a couple of test equipment dealers, but no luck. I don't want to have to call Tucker because they want too much money and their copies aren't all that great.

Anybody out there have one that I can borrow?

Circuit Design for the  
RF Impaired

Chris Trask / N7ZWY  
Principal Engineer  
ATG Design Services  
P.O. Box 25240  
Tempe, Arizona 85285-5240

Technical Editor,  
QRP Quarterly  
QRP ARCI 9464

Email: [ctrask@primenet.com](mailto:ctrask@primenet.com)  
<http://www.primenet.com/~ctrask>

Hi James, that's true and there's another way that's a little hard to

describe in words without a Smith chart but I'll try.

Let's say one finds the resonant frequency of the short vertical and the feedpoint resistance is 12 ohms. As one goes up in frequency from the resonant frequency, the antenna shows an inductive reactance. As one goes down in frequency from the resonant frequency, the antenna shows a capacitive reactance. At some point in either direction, the PARALLEL equivalent resistance will be 50 ohms. If we install a PARALLEL reactance at that point that neutralizes the existing PARALLEL reactance, the resulting feedpoint impedance will be a perfect 50 ohms resistive.

For instance, at the point where the impedance of the antenna is 12 j21 ohms, the parallel equivalent resistance is 50 ohms and the parallel equivalent reactance is j28 ohms. Adding the opposite -j28 ohms or +j28 ohms of reactance in parallel will yield a perfect 50 ohms. That's how I match my 75m mobile antenna.

--

73, Cecil, W6RCA <http://www.bigfoot.com/~w6rca>

-----  
Date: Sat, 23 Jan 1999 21:10:46 -0700  
From: W6RCecila <w6rca@ibm.net>  
To: qrp-l@lehigh.edu  
Subject: [30695] Re: Antenna ??'s  
Message-ID: <36AA9D46.6A2E@ibm.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

>Date: Sat, 23 Jan 1999 13:49:47 -0600  
>From: cd25d@clnk.com (Bill Slater)  
>Subject: [30657] Re: Antenna ??'s

>  
>Does the wire used for the antenna need to be insulated or bare? I read  
>somewhere (Ithink) that un-insulated wire picks up more QRM/QRN. Is it  
>>true? Tnx 73 de KD5GCX Bill

It depends on climate. In Arizona with its extremely low humidity, ions from the particles in the wind migrate onto an un-insulated antenna wire. Using a high-voltage insulated wire solved my extreme static electricity problem which caused arcing inside my transceiver.

--

73, Cecil, W6RCA <http://www.bigfoot.com/~w6rca>

-----

Date: Sat, 23 Jan 1999 23:23:19 -0500  
From: "Ron Polityka" <wb3aal@talon.net>  
To: "QRP-L" <qrp-l@lehigh.edu>  
Subject: [30696] ZL9CI  
Message-ID: <002e01be4751\$464fa3a0\$465445c6@wb3aal>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hello,

I worked the ZL9CI on 20 CW while running 1 watt and a vertical.

As of 04:20 UTC there is only 18 hours to go until they go QRT.

73 & Good DX  
Ron de WB3AAL  
wb3aal@talon.net

vvv Eastern Pennsylvania QRP Club Web Page vvv  
[http://www.kpsnet.com/wb3aal/Start\\_Page.htm](http://www.kpsnet.com/wb3aal/Start_Page.htm)  
Eastern Pennsylvania QRP#1  
Eastern Pennsylvania QRP Club Call---> N3EPA

-----  
Date: Sat, 23 Jan 1999 21:36:08 -0600  
From: "Marshall Emm" <mgemm@mtechnologies.com>  
To: qrp-l@lehigh.edu, cqclist@mtechnologies.com,  
Morse.Express.Clients@edison.chisp.net, Morse.Express.Clients@edison.chisp.net  
Subject: [30697] New Products: G4ZPY Straight Keys  
Message-ID: <199901240436.VAA05865@edison.chisp.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Content-Transfer-Encoding: 7BIT

Our latest order of G4ZPY keys has arrived, and we are delighted to announce the availability of three new keys in the Morse Express inventory:

Model 4 Pump Key. This is the same beautiful brass key as the Number 1, but it's mounted on a thicker (3/4") base of either Grecian Marble or Lakeland Stone. It weighs two pounds, and is priced at a very reasonable \$119.95 in your choice of marble or stone base.



Model 12 and 35 Marconi Keys. These classic Marconi style straight keys recall the elegance of the Twenties with their clean lines and massive key levers. The 7" x 4" polished mahogany base is an inch thick. Model 12 has satin brass and Model 35 is highly polished brass. Each key weighs 2 lb 2 oz. Model 12 (satin brass) is \$129.95 and Model 35 (polished brass) is \$139.95.

The shipping, handling, and insurance charge is \$9.50 for UPS ground or \$15 for FedEx 2nd Day Air, regardless of order size.

You'll find pictures of the keys at <http://www.MorseX.com/g4zpy> , or if you don't have access to the web I can email you one as a .jpg attachment. Use our secure ordering facilities on the web site, or call (800)2388205 toll free to order by phone, or (303) 7523382 for more information.

-----  
Date: Sat, 23 Jan 1999 18:18:31 -0700  
From: "Steve/n0tu" <n0tu@webaccess.net>  
To: "QRP-L" <QRP-L@lehigh.edu>  
Subject: [30698] League gets 5-MHz Experimental license  
Message-ID: <001f01be4753\$7b430500\$76a8a3cc@S&P.www.webaccess.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

What does this really mean. Is there a 5MHz band in our near or distant future??

TU & 72/73 ...Steve/n0tu-Monument,CO  
<http://www.webaccess.net/~s&p/HRindex.htm>

-----  
Date: Sat, 23 Jan 1999 23:26:01 -0600 (CST)  
From: aweiss@usd.edu (Ade Weiss W0RSP)  
To: qrp-l@lehigh.edu  
Subject: [30699] RE: Lack of controversy..  
Message-ID: <199901240526.XAA12274@sunburst.usd.ed>

Hi gang!

Just occurred to me while running thru the postings tonite that we haven't had a flame-war for a while.

Isn't this a fun list to read thru!

Let's keep it this way.

72, Ade

-----  
Date: Sun, 24 Jan 1999 00:36:51 EST  
From: N7YA@aol.com  
To: qrp-1@lehigh.edu  
Subject: [30700] Re: CHANGING CALL SIGNS  
Message-ID: <d260982c.36aab173@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit  
Content-Transfer-Encoding: 7bit

In a message dated 1/21/99 8:58:29 AM Pacific Standard Time,  
n1tp@worldnet.att.net writes:

<< I once thought that N5EE was a good CW call  
but I've heard call signs with more than one "E" in them  
and those call signs are hard copy under poor conditions. >>

I think the most rhythmic call ive ever heard was NE5E...try it on your keyer now, see what i mean? it sounds like a marching tune, or the music they used to open the evening news with. but of course this guy was blisteringly loud when i heard him so i dont think rough copy was an issue with him.

73...Adam, N7YA

-----  
Date: Sun, 24 Jan 1999 00:41:00 -0500  
From: "Vincent Ferme" <vferme@sprint.ca>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [30701] Re: software  
Message-ID: <002801be475c\$2092af80\$f53067d1@vince>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hi Neil,

I have played with a good number of packages, my latest favorite :)) is TinyCAD. Point your browser to <http://members.xoom.com/sm0vpo/> ,down to the download section, and double click on PCB design software. It's for drawing schematics even though it says PCB.

73 de Vince, VE3VFN.

-----Original Message-----

From: ntan <ntan@crosslink.net>

>Hello agn.... Could someone point me to a source for freeware using the  
>PC for drawing schematics. thanx and Keep it LOw-----Neil WA4CHQrp  
>

-----  
Date: Sun, 24 Jan 1999 00:46:19 EST  
From: SABorns@aol.com  
To: qrp-1@lehigh.edu  
Subject: [30702] ZL9CI on 20 QRP  
Message-ID: <91c74e11.36aab3ab@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit  
Content-Transfer-Encoding: 7bit

Gang,

Just worked ZL9CI on 20m ssb QRP. He's listening 14.226. Transmitting 14.195.

73, Steve K8IDN

-----  
Date: Sun, 24 Jan 1999 02:22:43 EST  
From: N7YA@aol.com  
To: qrp-1@lehigh.edu  
Subject: [30703] Re: Lack of controversy..  
Message-ID: <64a0eddd.36aaca43@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII

Content-transfer-encoding: 7bit  
Content-Transfer-Encoding: 7bit

In a message dated 1/23/99 11:20:47 PM Pacific Standard Time, N7YA writes:

<< << Just occurred to me while running thru the postings tonite that we haven't had a flame-war for a while.

WHADDAYA MEAN???? the problem with all you "we havent had a good flame war in a while" people is.....ok, im just kidding. it really is nice to have at least one reflector where i DO care about offending the folks on it, qrp-l garners that kind of respect.

as a list owner myself, i look up to this list as a standard to meet. it was the very first one i joined...and will likely be the last one left that im subscribed to.

'you have a list, Adam?'...you say?...why yes i do!! if you didnt know about it, its for those interested in dxing with qrp power. if you want in let me know, or send a blank email to lowpowerdx-subscribe@egroups.com.

i swear this wasnt a butter-up to Chuck, i had asked him before if it was ok to post about it....i just dig this list and those on it. keep on keeping on.

73...Adam, N7YA

-----  
Date: Sun, 24 Jan 1999 03:51:27 EST  
From: Ed Loranger <we6w@juno.com>  
To: qrp-l@lehigh.edu  
Subject: [30704] Just doing the Ham thing!  
Message-ID: <19990124.005256.4775.21.we6w@juno.com>

In the words of King Joel, in the Sneaux,  
Highest Gangue,

I had an excellent qso with brother Greg/AK7Y tonight.  
Also worked the lad/KM7DX, all of 14 and sporting a find  
fist on the paddle. Must've been cooking near 30 WPM  
with me.

Anyway, I got this RF detector project in the mail today.  
A qrp brother had trouble with the small parts so I had  
all this free time so told him I'd give it a go. Wouldn't  
you know I don't have an 4M7 resistors! Well, I paralleled  
two 10 M Ohms and had this puppy fitting inside a Technigraph  
mechanical pencil. Then it happened! Sure, one more 1/4 inch  
and I'll have that support grommet stress relieving the gortex  
cable I offered up.

Ok, maybe it isn't time to go "microelectronics" like my days in the early 80's. So I'm making up a pcboard card for this thing. It is going to be microstripline like the big boys use. I'll find something big enuf to fit it into, maybe make it in that old tube shield like the article that was sent.

But it is definitely going to be a nice RF probe.

Funny, I've got two of these commercial, wait, 4 of these commercial detectors. 2 of them to 18 GHz and the other two are BNC jobs up to 2 or 3 GHz. Very nice actually. Great for them ALC test-beds. One or 2 watt capability.

Since I am not in need when it comes to RF detectors, I had passed on the RF probe project in the Elmer 200. But looked for an opportunity to fit the project in.

Hey, it is more fun than I imagined. Gotta cut some PC board and make it mechanically sound, and put a smile on the face of a fellow ham.

What, me hurry? Nah, the fun is in the building. That's exactly what Greg said on the air tonight. This kind of attitude is the good kind of contagious!

7 hours until the HW contest. I'll be on 40 meters and casual at 20 WPM or whatever makes the Q.

G'nite friends. Hope your day was pleasant.  
72, Ed WE6W, AR Millennium QSO's=181/2000  
<http://www.qsl.net/we6w> Radio, everyday in Santa Rosa, CA  
QRP-L#1068 AR#112 QRP-Z#106 ARCI:9397 Norcal#2227 QAA#006

-----  
You don't need to buy Internet access to use free Internet e-mail.  
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>  
or call Juno at (800) 654-JUNO [654-5866]

-----  
Date: Sun, 24 Jan 1999 01:33:25 -0800 (PST)  
From: Jeff Furman <jfurman@ocs.net>  
To: Adrian Weiss <aweiss@usd.edu>  
Cc: qrp-l@lehigh.edu  
Subject: [30705] Re: Spice Demo  
Message-ID: <Pine.LNX.4.04.9901232252480.16943-100000@ocs.net>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Ade, I briefly investigated the ferrites that the Microcap demo has available: mixes 3B7, 3C81, 3C85, and 3F3. These are Philips ferrites (they may actually be industry standard mixes that Philips offers) , and their data sheets are found on Philips web site

<http://www.passives.comp.philips.com>

in the passives section, a few levels deeper on the component path.

These are listed as soft (magnetic) ferrites. Philips has some interesting application notes that seem to be tutorial along with the specific data sheets. I didn't see a cross reference list for other manufacturer's ferrite types, so some detailed comparison with the Fair-Rite data sheets is necessary to decide which of the models is best to use. Microcap is supposed to model nonlinearities of the magnetics, which might inspire some brave soul to investigate the interstage coupling, say, between driver and final using the transient analysis. The waveforms over a complete cycle can then be analyzed with the FFT for harmonic content in the final output.

Plotting of input or output impedances for AC analysis in MicroCap V has changed from

earlier versions I used. It looks like you need to plot the ratio of the voltage across the terminals to the current going into the terminals. Of course, these terminals are being driven by an independent source used here to measure the impedance using the ratio definition of impedance. Any other independent source is shut off-- a voltage source is replaced by a short circuit (guarantees 0 volts) a current source is replaced by an open circuit for the source (no current), otherwise incorrect impedances will be measured. The exception is that the DC bias needs to remain to allow the AC analysis to find the operating point for the nonlinear elements such as transistors, etc. If you merely have a load and not a test source, the ratio ought to be the same as the load, which probably isn't what's desired.

MicroCap V allows plotting user specified functions of the available state variables (node voltages and branch currents), so, if you want to plot the real and imaginary parts of an impedance, it might look like this:

realpart:  $(v(1)/i(1)) * \cos(\text{ph}(v(1)/i(1)))$

imagpart: .....sin.....

where i(1) is whatever shows the input test current

or something similar ( it may be necessary to specify magnitudes for some of these factors).

This stuff about impedances is not intended to be especially esoteric. It is generally the result of understanding basic AC circuits.

Traditionally, AC circuit response plots with a horizontal frequency axis use

logarithmic frequency and amplitude scales, and linear phase scale. This is the Bode plot. The logarithmic amplitude scale can be interpreted as DbV or DbA or DbW easily; for impedance, it makes more sense to use linear amplitude scaling since Dbohms is rather obscure (but handy for multi decade variations in impedance, hard to represent linearly). The

characteristic straight line segments on Bode plots make certain circuit properties immediately obvious from inspection of the plot. The use of linear frequency and amplitude axes severely distorts these lines. The phase plot alone is always linear; sometimes phase values and slopes reveal important information hidden in the amplitude plot. For example, the phase changes most rapidly (has the greatest slope) at the center frequency of a band pass filter. It is usually easier to spot the zero degree phase point than estimate the tangent to the peak of the amplitude. There are other rules of thumb for finding pole and zero position looking at the phase...

I just realized the eyegaze coefficient for the above is very high, so I'll let that be enough.

73, Jeff KD6MNP

-----  
Date: Sun, 24 Jan 1999 13:40:35 +0200  
From: Laurentiu Alexe <lalex@dnrt.ro>  
To: "Jim Kortge, K8IQY" <jokortge@cwix.com>  
Cc: qrp-1@Lehigh.EDU  
Subject: [30706] Re: 2n2222 projects... where?  
Message-ID: <36AB06B3.79B@dnrt.ro>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hi Jim,

Thank you for your replay!

Was the single answer which I got for my plea.

And last year was so many discussions about this subject...

I like to homebrewing and I am just curious to build and try few of them.

Jim Kortge, K8IQY wrote:

>

> Try the following URL: <http://home.cwix.com/~jokortge@cwix.com/>

> I'll be putting the complete 2N2/40 package up on the site

> once the QRPP article is published, hopefully sometime in

> January.

>

Unfortunately, it's not possible for me to subscribe to QRPP magazine, but I read all previous messages about this project and I checked your web by many times.

> I'm currently working on a 6 meter transverter using

> 2N2222s, that will work with the 2N2/40.

>

I'll be QRV!

CU and 72!

Dan Y03DAN

#857 QRP-L #8507 G-QRP

-----  
Date: Sun, 24 Jan 1999 08:33:37 -0500  
From: "S. M. Whitehouse" <ke4yh@email.msn.com>  
To: "Low Power" <qrp-l@Lehigh.EDU>  
Subject: [30707] Problem with voltage reg.  
Message-ID: <000001be47a4\$14291d40\$9a9a2399@default>

Hi folks and fellow homebrewers.

I'm putting together a power supply and am getting unexpected results from a L7915ACV regulator. Instead of getting -15 V, I'm seeing -22.5 V at the output. The input is -30V. I tried two different chips with the same results. In the same PS I have a L7815ACV chip with +30V input and get +15.1V out.

The regulator is by STMicroelectronics (Mouser p/n 511-L7915ACV) Could it be that the L7915 tolerates less of an input voltage than does the L7815 chip of the same manufacturer?

Looking forward to your comments.

72

Stew KE4YH

Dunedin, Florida

-----  
Date: Sun, 24 Jan 1999 08:49:53 -0600  
From: David Gauding <david.gauding@bbs.galilei.com>  
To: qrp-l@lehigh.edu  
Subject: [30708] Help - Reverse TVI  
Message-ID: <1.5.4.32.19990124144953.009a953c@bbs.galilei.com>



Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Gang,

We are planning to replace our 27" television with either a 32" or a 36" model.

The sweep tube in our ten year old 27" Toshiba puts an unpleasant but not unbearable amount of hash on my receivers. This is particularly noticeable when someone is "surfing"! <g>

Wondering if with the passage of ten years the technology used for today's bigger sets keeps sweep tube emissions under better control?

Your comments will be helpful and appreciated.

Many thanks,

de Dave, NF0R      nf0r@slacc.com

-----  
Date: Sun, 24 Jan 1999 06:57:00 -0800 (PST)  
From: Duane Alles <ad6he@yahoo.com>  
To: qrp-1@Lehigh.EDU  
Subject: [30709] WTB  
Message-ID: <19990124145700.14493.rocketmail@send206.yahoomail.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Hello All,

I'm interested in buying filters like the Autek QF-1A or similar.  
Please email direct.

72,73  
Duane, AD6HE

-----  
DO YOU YAHOO!?

Get your free @yahoo.com address at <http://mail.yahoo.com>

-----  
Date: Sun, 24 Jan 1999 15:02:33 -0600  
From: DONALD DORN <ddorn@cwis.net>  
To: QRP-L@LEHIGH.EDU  
Subject: [30710] CLASSIC RADIO  
Message-ID: <36AB8A69.21FA@cwis.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Does anybody know of a website or bulletin board for classic radio  
buffs? I need to sell an old Hallicrafters rig.

Don K5AAR in Oklahoma

-----  
Date: Sun, 24 Jan 1999 10:22:59 EST  
From: Wa2eaw@aol.com  
To: w6rca@ibm.net, qrp-l@Lehigh.EDU  
Subject: [30711] Re: Antenna ??'s  
Message-ID: <f4a09391.36ab3ad3@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit  
Content-Transfer-Encoding: 7bit

In a message dated 1/23/99 11:51:35 PM Eastern Standard Time, w6rca@ibm.net  
writes:

<< Does the wire used for the antenna need to be insulated or bare? I read  
>somewhere (Ithink) that un-insulated wire picks up more QRM/QRN. Is it  
>>true? Tnx 73 de KD5GCX Bill

It depends on climate. In Arizona with its extremely low humidity,  
ions from the particles in the wind migrate onto an un-insulated  
antenna wire. Using a high-voltage insulated wire solved my extreme  
static electricity problem which caused arcing inside my transceiver.

--

73, Cecil, W6RCA <http://www.bigfoot.com/~w6rca>

Hi Bill;

On the other end of the stick I have a sneaky uninsulated long wire on the roof of the condo( forbidden) here in HUMID Florida. No QRN problems. I imagine if I used an insulated wire here, the humidity will get between the insulation and the wire and effect the heck out of the antenna. As they say in Brooklyn NY you gots yur cherce so do sumptin about id. Bob..WA2EAW es 73 and GL..Hollywood Fl.

-----  
Date: Sun, 24 Jan 1999 09:30:11 -0600  
From: Jim <kj5tf@madisoncounty.net>  
To: qrp-l@Lehigh.EDU  
Subject: [30712] Index Labs QRP+ troubleshooting help needed  
Message-ID: <36AB3C83.68C5@madisoncounty.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

After years of faithfull service my Index Labs QRP+ is haveing trouble this morning. I had it on earlier this morning and adjusted the power to 30mW on 10M. I made some calls, etc and shut down. Came back to it later and its sick!  
I can hear signals but only one or two, & have to have the vol way up. It keys, with plenty of sidetone, but power is very low and adjustments dont get much going. Max power in my WM-2 is 10mW !  
There was no storms, no pwr supply voltage spike, or anything I can figure. I have been running milliwatts for two weeks. Thats the only thing Ive been doing diferent.

Hope someone has some ideas! Jim KJ5TF

-----  
Date: Sun, 24 Jan 1999 10:40:05 -0500 (EST)  
From: James Skalski <jskalski@buffnet.net>  
To: qrp-l@Lehigh.EDU  
Subject: [30713] swl-40 FS  
Message-ID: <Pine.LNX.4.03.9901241037560.614-100000@valhalla.valhalla.buffalo.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have a like new SWL-40 built in factory option box with Rit mod. \$75 shipped. Works and looks like new. All documentation included.

Jim N2go

-----  
Date: Sun, 24 Jan 1999 10:42:07 -0500  
From: "Dan Romanchik" <danr@izzy.net>  
To: <ddorn@cwis.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [30714] Re: CLASSIC RADIO  
Message-ID: <01be47b0\$18fe7ca0\$8ab59ecf@danr.izzy.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Here's one:

<http://www.accessone.com/~philn/>

I quickly browsed through it, but didn't find a classified section, though. I have seen a web site for selling/trading old radios, but can't seem to find the URL just now.

73, Dan KB6NU

-----Original Message-----

From: DONALD DORN <ddorn@cwis.net>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Date: Sunday, January 24, 1999 10:08 AM  
Subject: CLASSIC RADIO

>Does anybody know of a website or bulletin board for classic radio  
>buffs? I need to sell an old Hallicrafters rig.  
>  
>Don K5AAR in Oklahoma

-----  
Date: Sun, 24 Jan 1999 11:17:04 EST  
From: K4NK@aol.com  
To: qrp-1@Lehigh.EDU  
Subject: [30715] F.S.--qrp etc. list  
Message-ID: <270dee07.36ab4780@aol.com>  
Mime-Version: 1.0

Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit  
Content-Transfer-Encoding: 7bit

Well gang I went out to the work shed today and I have just too much stuff  
i'll never build or use . E-mail me privately for a list.

73 Les K4NK

-----  
Date: Sun, 24 Jan 1999 11:27:20 -0500 (EST)  
From: James Skalski <jskalski@buffnet.net>  
To: qrp-1@Lehigh.EDU  
Subject: [30716] FS Yaesu Manpak/tuner  
Message-ID: <Pine.LNX.4.03.9901241108080.614-100000@valhalla.valhalla.buffalo.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have a Yaesu Manpak transceiver FT 70GC. It was limited  
production/special order qrp transceiver. It is all band receive.  
cw/ssb/am transmit. Switchable 5 or 10watts out. (a little less on AM) It  
has a speaker microphone. I have a copy of the manual in Japanese and an  
english version of the shop manual. The unit could stand to be aligned. I  
got the shop manual to to it but never got around to it. W1AW is not  
exactly on freq. ( I assume that they haven't moved)

A second even rarer item is the FC-70M matching man pack antenna tuner.  
This is in the original box with documentation (english).This is in as new  
condition.

I would like to trade for a Icom 735 but would take an offer. BTW I don't  
want to break up the set. I have never seen another tuner \*anywhere\*.

73,

Jim N2go

-----  
Date: Sun, 24 Jan 99 09:26:18 -0700  
From: "James R. Duffey" <jamesd1@flash.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, <alfa33@scn.org>  
Subject: [30717] Noise in Receivers (Was OLD RADIO OR NEW?) HELP!  
Message-ID: <199901241627.KAA13894@echo.flash.net>  
Mime-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"

Jacob - You asked about noise in receivers and copying weak signals:

"How noisy are the "new" HF rigs, and how do they compare to the older ones when copying a weak CW signal?"

I've heard stories that the "older" rigs ( especially the ones without digital displays ) were a LOT better for copying weak CW signals. True?"

I have not seen any response to this, but it is a good question and deserves a reply. Here goes.

There is an easy way to tell if a receiver has a low enough noise floor. Disconnect the antenna; the noise should drop. Reconnect the antenna and the noise should rise. If this happens the receiver should not be the limiting factor, at least noise wise in copying weak signals. If the noise drops when the antenna is disconnected that means the main noise source is external (not associated with the receiver), and not internal (caused by the receiver). The difference should probably be 6 dB or more as an experienced CW operator can copy with signal to noise ratios less than 1.

It is instructive to try this on several bands. The difference between antenna off and antenna on will be very pronounced on the lower bands, say 80 M and 40 M, and less so on the higher bands, say 10 M. If you have a 2 M multimode you can try it there and find that you will hardly hear any difference at all (unless you have a good low noise figure preamp).

The reason is that the naturally occurring noise drops with frequency.

Back to your original question: most rigs built in the last 40 years have adequate sensitivity below 20 M. Most rigs built in the last 20-30 years or so have adequate sensitivity on all the HF bands. Most of the recent advances in rigs have focused on strong signal handling capability and operator convenience.

I have an old Hammarlund HQ-170 receiver ca. 1960. Except on 10M Mode-A satellite work it can copy pretty weak signals pretty much as well as my TS-850 on all bands. Or maybe I should say that my TS-850 can copy signals as well as my HQ-170 can. ;^)

Some of the first rigs with digital displays had places in the bands where the digital display clock or harmonics of it could be heard, but these places were usually few and far between. I don't think it is a significant problem, but the above test should help you identify these rigs

There are some good bargains out there among older rigs and I don't think you need to worry about the noise in them limiting their weak signal copying ability.

There are other items other than receiver noise floor to consider when trying to copy weak signals. Headphones help immensely, particularly those which shut out all room noise. A good set of cans must be worth at least 3 dB improvement in weak signal copying ability. Narrow filters help too, as the integrated noise decreases as the square root of the bandwidth. Thus a narrow 300 Hz CW filter will have a third less integrated noise than a wide 2.7 kHz SSB filter. When copying weak CW I like to turn off the Automatic Gain Control (AGC), back off on the Radio Frequency (RF) gain to reduce the noise and increase the Audio Frequency (AF) gain to bring the signal up to copyable level. This helps a lot. I also like to copy at a relatively low note frequency, 500-600 Hz which for me seems to ride over the noise better.

If you are going rig hunting, I would suggest look for a rig that has a CW filter installed or provisions for installing one and one that allows you to turn off the AGC. CW filters can still be obtained for many discontinued rigs from International Radio in Oregon. If the rig does not have provision for a narrow CW filter an audio filter will help, but not as much as a good IF filter.

I don't know what price range you are looking at for used rigs, but I think the following used rigs are good values and won't break the bank; ICOM 730 (Ham band only), 735, and 745, Kenwood TS830, TS930 and TS-940, Ten-Tec Omni-D and Corsair. All of the above have the WARC bands. If you want the "old bands" only you can also consider the Kenwood TS-820 (tube finals) which has a fine receiver. For separates the Drake 4 line (T4X and R4) is a good value and can be made to transceive. They are tube radios, though and that means that tube replacement could be expensive. The Drake R4 receivers are very nice performers and can be crystallized for the WARC bands. Try to buy locally and try out the rig before you buy it.

If you get a rig that does not have the capability to fit a narrow CW filter you can use an outboard audio filter. With DSP now big there are many good values on analog audio filters available. DSP does not have that much advantage over analog processing on CW, so you aren't giving up much. Audio filters to look for include the Datong FL-1,2, or 3, Autek QF-1 and QF-1A, the OHR-SCAF, and the MFJ CWF series. Many of these can be found at hamfests reasonably priced. The Radio Shack DSP can be found at hamfests for \$20 or so and at this price it is a good value as it has reasonable filtering and a fairly good quality amplifier and built in speaker. The CW filtering is good, but the SSB filtering does not compare with a DSP like NIR or Timewave. I use one with my 2M rig which does not have provisions for narrow CW filters. Just don't try to copy CW on the SSB setting.

Good luck in rig hunting. I hope that it goes well. Let us know how it turns out. - Dr. Megacyale KK6MC/5.

James R. Duffey KK6MC/5 DM65  
30 Casa Loma Road  
Cedar Crest NM 87008

-----  
Date: Sun, 24 Jan 1999 10:32:51 -0600  
From: Dave Redfearn <n4elm@texoma.net>  
To: alfa33@scn.org, qrp-1@lehigh.edu  
Subject: [30718] Re: == ANYONE USING AN ASTRON POWER SUPPLY? ==  
Message-ID: <36AB4B33.2E370314@texoma.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

alfa33@scn.org wrote:

>  
> Hello, again --  
>  
> I would like to hear from anyone out there who is using one of  
> the ASTRON "switching" power supplies to power a QRP rig.  
>  
> I have some concerns about the noise that might be generated  
> by such a supply and what the effect might be on CW  
> reception.  
>  
> 73,  
>  
> Jacob Worthington  
> AA4FM  
> -----

I use an Astron 18 amp switching supply to run a Icom IC-706II.  
They specifically mention that the power supply is low noise for HF  
rigs.

I have not noticed any power supply noise with the IC-706.

73 - Dave



=====  
Dave Redfearn, ARS N4ELM, McKinney, TX  
Email: n4elm@NOJUNKtexoma.net (to reply, remove NOJUNK)  
QRL? de N4ELM/qrp

-----  
Date: Sun, 24 Jan 1999 10:54:54 -0600  
From: "Larry Cruise" <aa5ta@texasonline.net>  
To: "QRP-L" <qrp-l@lehigh.edu>  
Subject: [30719] RE: Cecil's Short Vertical/ Folded Unipole  
Message-ID: <000901be47ba\$72dc9360\$8910cfd0@fpfzqlga>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

In a recent posting James R. Duffey (ji3m@maxwell.com) stated the following:

>You can also use more than one vertical wires to trasnform the impedance.  
>This is the monopole version of a folded dipole. 3 or more vertical wires  
>will probably be required to get the impedance up to 50 Ohms. Again see the  
>Handbooks for details. By the way, this technique will not increase the  
>efficeincy of the antenna as some have suggested. The ground losses  
>relative to the antenna losses will remain the same. It does make it  
>ieasier to feed though.

Dr. Megacycle KK6MC/5 is indeed correct on this point. I use to believe that the folded unipole had this attribute among others. As a matter of fact I used various configurations of this antenna on all bands with good results for a number of years. It however doesn't work any better then a standard vertical of the same size. I started to suspect this after making some comparisons between a standard vertical and one of the folded unipole design. The folded unipole has been written up in a well respected book by Capt. Paul H. Lee "The Amateur Radio Vertical Antenna Handbook." This book has a chapter devoted to the design of this type of antenna. There have been articles in the ARRL Antenna compendiums as well.

For an in-depth NAB paper along with graphs and data comparing the Folded Unipole with the standard 1/4 check out the following:

<http://www.dlr.com/dlrweb/papers/nabpaper/Nabpaper.htm>

After reading this article it only confirmed what I had been suspecting for

some time about the Unipole.  
Below is a small abstract of the article.

#### PURPOSE OF RESEARCH

The folded unipole is sometimes viewed as having beneficial characteristics beyond its utility for shunt feeding towers which must be grounded at their bases. One common belief is that a folded unipole produces significantly higher radiation than a series-fed tower of the same height. Two additional, related beliefs are that a folded unipole does not require a ground system and that, if the wire cage dimensions can be adjusted to produce a much higher input resistance than for the series-fed case (meaning lower input current), the current flowing in the ground system can be reduced. It is also commonly believed that folded unipoles have better bandwidth than series-fed towers. A test plan was devised to evaluate the performance of a folded unipole in comparison with a series-fed tower within these areas of interest.

Makes for good reading if your into verticals. :)

-72 aa5ta (West Texas) One time Folded Unipole user :)

-----  
Date: Sun, 24 Jan 1999 11:06:58 -0600  
From: cd25d@clnk.com (Bill Slater)  
To: <qrp-1@Lehigh.EDU>  
Subject: [30720] OKAY Stupid Newbie ??  
Message-ID: <006801be47bb\$f4626c60\$abe4050c@willies>  
MIME-Version: 1.0  
Content-Type: text/plain;  
    charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

What are WARC bands?????  
Bill & 73 cd KD5GCX  
  
-----

Date: Sun, 24 Jan 1999 09:05:58 -0800 (PST)  
From: Gary Slagel <gdslagel@yahoo.com>  
To: qrp-l@Lehigh.EDU  
Subject: [30721] Audio problems on MFJ Rigs??  
Message-ID: <19990124170558.21394.rocketmail@send202.yahoomail.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Hey gang!

Need some input on MFJ QRP rigs.

I just bought an MFJ 9020 and I think it is an older rig. I've got a friend with the same rig and I'd swear his has a lot more audio than mine. I also know his is a new rig.

Anyone know of a difference between the old and new rigs? Any suggestions for improving the audio?

Thanks

==

Gary Slagel  
21515 Indian Springs Rd  
Conifer, CO 80433  
(303) 697-1554 home  
(303) 236-0624 work  
gdslagel@yahoo.com

-----  
DO YOU YAHOO!?

Get your free @yahoo.com address at <http://mail.yahoo.com>

-----  
Date: Sun, 24 Jan 1999 12:21:47 -0500  
From: "Charles R. Mabbott Sr." <crmabbott@mediaone.net>  
To: "Ralph A. McDonough" <k8an@aol.com>, "QRP-L" <qrp-l@Lehigh.edu>  
Subject: [30722] Fw: INTERNATIONAL LIGHTHOUSE/LIGHTSHIP WEEKEND 1999  
Message-ID: <00de01be47be\$05f2a920\$0d318318@mw.mediaone.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Good activity to spread the word about!

----- Original Message -----

From: Mike Dalrymple <GM4SUC@compuserve.com>

To: Chuck AA8VS <crmabbott@mediaone.net>

Sent: Sunday, January 17, 1999 4:31 PM

Subject: INTERNATIONAL LIGHTHOUSE/LIGHTSHIP WEEKEND 1999

Dear Chuck,

Last year the International Lighthouse/Lightship Weekend took place from 0001 UTC on Saturday 22 August until 2359 UTC on Sunday 23 August 1998 when radio amateurs of the world joined in the fun of the weekend by establishing stations at 151 lighthouses, lightships or maritime lights in 38 countries. Stations were QRV in Europe, North and South America, Africa, Asia, Australia and New Zealand.

This year the International Lighthouse/Lightship Weekend will be from 0001UTC on Saturday 21 August until 2359 UTC on Sunday 22 August 1999. At the same time will be The Northern Lighthouse Weekend, when stations will be specifically established at lighthouses in Scotland and the Isle of Man.

The event is NOT a contest, each stations decides how they will operate their station regards modes and bands. We have found that when it is quiet they have a natter and when there is a pileup they convert into a type of contest mode. We wish the operators to enjoy themselves and have fun while making contact with as many stations as possible. Some operators say fun - 10,000 contacts - OK, but we request that stations take some time to work the slow operator, the newly licensed and QRP stations too.

Participating stations are requested to add LIGHT, LGT, LIGHTHOUSE or LIGHTSHIP after their call.

We use the event segment of the 5 Classic bands with a centre frequency if conditions are bad, at least we have one place we can (try to) meet.

#### CW

|     |                   |        |            |
|-----|-------------------|--------|------------|
| 80m | 3.510 - 3.540 Khz | Centre | 3.521 +/-  |
| 40m | 7.005 - 7.035     |        | 7.021 +/-  |
| 20m | 14.010- 14.040    |        | 14.021 +/- |
| 15m | 21.010 - 21.040   |        | 21.021 +/- |
| 10m | 28.010 - 28.040   |        | 28.021 +/- |

#### PHONE

|     |                   |        |            |
|-----|-------------------|--------|------------|
| 80m | 3.650 - 3.750 Khz | Centre | 3.721 +/-  |
| 40m | 7.040 - 7.100     |        | 7.051 +/-  |
| 20m | 14.125 - 14.275   |        | 14.221 +/- |

|     |                 |            |
|-----|-----------------|------------|
| 15m | 21.150 - 21.250 | 21.221 +/- |
| 10m | 28.300 - 28.400 | 28.351 +/- |

The 40 and 80 M frequencies are for European stations, outside Europe stations can use any authorised frequencies

If you require any further information just contact me and I will do all I can to help. If you decide to join us could you let me know the callsign you will use and QSL information. This will be used to create a list of participating stations and issued to other amateurs and radio amateur media.

So, come and join us, the more the merrier.

Vy 73s from Scotland,

Mike GM4SUC

e-mail : gm4suc@compuserve.com  
packet : GM4SUC@GB7AYR.#78.GBR.EU

-----  
Date: Sun, 24 Jan 1999 09:20:25 -0800  
From: "Bill Todd" <bill@willapabay.org>  
To: <kj5tf@madisoncounty.net>  
Cc: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [30723] Re: Index Labs QRP+ troubleshooting help needed  
Message-ID: <002401be47bd\$d5a7fd60\$edadded1@bill>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

>After years of faithfull service my Index Labs QRP+ is haveing trouble  
>this morning. I had it on earlier this morning and adjusted the power  
>to 30mW on 10M. I made some calls, etc and shut down. Came back to it  
>later and its sick!

The guy who does QRP+ repairs is Stan Yarema, K7SY in Seattle. He was the primary technicians on all QRP+ rigs before they were sent out to the customer.

You can reach Stan at: bg783@scn.org

CUL, Bill-N7MFB

-----  
Date: Sun, 24 Jan 1999 12:32:19 -0500 (EST)  
From: James Skalski <jskalski@buffnet.net>  
To: qrp-1@Lehigh.EDU  
Subject: [30724] FS RCA 40673  
Message-ID: <Pine.LNX.4.03.9901241225000.750-100000@valhalla.valhalla.buffalo.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I still have some RCA 40673 fets. The price is \$30 for 10 plus \$1 for  
mailer and shipping. RF parts has these for \$6.95 each plus min orders and  
ups shipping. Yes there are substitutes..yada, yada.  
These are listed in a lot of projects from Solid state Design, ARRL  
handbook, Radio handbook etc.  
If you want the originals at a very good price; I have some.

73,

Jim N2go

-----  
Date: Sun, 24 Jan 1999 11:37:53 -0800  
From: Mike Stapp <stapp001@gold.tc.umn.edu>  
To: qrp-1@Lehigh.EDU  
Subject: [30725] RE: Classic Radios  
Message-ID: <36AB7691.7E91@tc.umn.edu>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Try the Hallicrafters Collectors Association at  
<http://www.qsl.net/hca/Default.htm>

Buy, sell, trade ads are for members only; membership is free for the  
asking. The web page tells you how to join - easy.

Good luck and 72,  
Mike - KE0WW - QRP-1 #250

Minneapolis

-----  
Date: Sun, 24 Jan 1999 12:50:57 -0500  
From: "Tim Cook" <timcook@erinet.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [30726] KD1JV??  
Message-ID: <012301be47c2\$19046ae0\$6a765acf@timcook.erinet.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Anyone have Steves email address??  
Thanks  
tim  
NZ8J

-----  
Date: Sun, 24 Jan 1999 13:37:00 -0500 (EST)  
From: "Scott Rosenfeld [N7JI]" <ham@w3eax.umd.edu>  
To: Bill Slater <cd25d@clnk.com>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [30727] Re: OKAY Stupid Newbie ??  
Message-ID: <Pine.LNX.3.95.990124133557.27997C-100000@w3eax.umd.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

World Amateur Radio Conference

The WARC (30, 17, and 12 meter) bands were given to amateurs in 1979, and hams were finally given complete access to these bands a few years later.

WARCs happen from time to time.

Scott Rosenfeld ARS N7JI  
541-346-7401 Eugene, OR Land o' much rain  
If you find me on the air, I'm probably in my car  
ham@w3eax.umd.edu <http://w3eax.umd.edu/~ham>

On Sun, 24 Jan 1999, Bill Slater wrote:

> What are WARC bands?????  
> Bill & 73 cd KD5GCX

>

-----  
Date: Sun, 24 Jan 1999 13:09:47 EST  
From: AA3BP@aol.com  
To: qrp-1@Lehigh.EDU  
Subject: [30728] W1FB Universal DC Rcvr  
Message-ID: <232b4fb6.36ab61eb@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit  
Content-Transfer-Encoding: 7bit

W1FB's QRP Notebook contains a Universal DC Receiver (Pg 77-81). Does anyone have these same plans \*\*independent of\*\* the QRP Notebook. I first attempted this project when I was new to QRP homebrewing without success. Now, 5 years (and 100+ homebrewed projects) later I attempted the same project again, figuring that I had learned enough to make it work. No such luck sez Mr. Murphy.

Anyway, since my unsuccessful results were identical on both attempts, I'm now wondering if there might be a schematic or parts value misprint in the Notebook (as I've found in some of the other projects).

I've found that W1FB's fine projects were often published by several sources and am hoping that I can find an independent source to compare.

For the record, my problem is isolated to the Product Detector and/or VFBO stages.

Any and all help/suggestions greatly appreciated.

73,

Jim, AA3BP

-----  
Date: Sun, 24 Jan 1999 10:18:51 -0800  
From: "Roger A. McCarty" <rmccarty@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, "'HomeBrew'" <homebrew@qth.net>  
Subject: [30729] Metal Chassis cutting, how do you;  
Message-ID: <000401be47c5\$fe9d3e80\$9505b2d1@rmccarty.earthlink.net>  
MIME-Version: 1.0



Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hello all,

I'm looking to buy a bench top machine for cutting precise holes/rectangles in metal and or plastic chassis', but I don't know what would be best. A scroll saw? a band saw? Other?

Thanks

Roger A. McCarty ARS KD6CC  
<http://www.qsl.net/kd6cc>

-----  
Date: Sun, 24 Jan 1999 13:30:27 -0500 (EST)  
From: James Skalski <jskalski@buffnet.net>  
To: "Roger A. McCarty" <rmccarty@earthlink.net>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [30730] Re: Metal Chassis cutting, how do you;  
Message-ID: <Pine.LNX.4.03.9901241326400.792-1000000@valhalla.valhalla.buffalo.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have used chassis punches for holes. That is the only way to go for easy perfect holes. I have also uses the ...drill the corners and saw to connect the corners..followed by a lot of filing,, method..  
A sabre saw has been helpful for the rough cuts.  
A suggestion is to put masking tape on the chassis to prevent scratching the chassis when using the saw. Also I suggest undercutting the hole and filing to get a precise size.

The right tools are always easier to use.

73,

Jim N2go

-----  
Date: Sun, 24 Jan 1999 13:32:27 EST

From: w4pj@w4bkkx.ampr.org  
To: qrp-1@lehigh.edu  
Subject: [30731] Re: OKAY stupid newbie  
Message-ID: <44891@w4bkkx.ampr.org>

Scott Rosenfeld writes: "World Amateur Radio Conference"

It's WORLD ADMINISTRATIVE RADIO CONFERENCE

They have a lot more to do than worry about only us lowly Amateurs.

BTW It looks like the FCC is investigating the 5MHz band. Maybe another addition to our Amateur allocations is in the works. (Can you say NEW RIGS?)

de Scott / W4PJ

-----  
Date: Sun, 24 Jan 1999 10:46:50 -0800  
From: "Radman" <radman@best.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, <timcook@erinet.com>  
Subject: [30732] Re: KD1JV??  
Message-ID: <199901241844.KAA14826@proxy4.ba.best.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Steve (smoke solder) Weber: kd1jv@moose.ncia.net

72, Conrad - NN6CW

\*\*\*\*\*

Anyone have Steves email address??  
Thanks  
tim  
NZ8J

-----  
Date: Sun, 24 Jan 1999 14:14:36 -0500 (EST)  
From: Rich Mulvey <mulveyr@iname.com>  
To: James Skalski <jskalski@buffnet.net>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [30733] Re: Metal Chassis cutting, how do you;

Message-ID: <XFMail.990124141436.mulveyr@iname.com>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 8bit  
MIME-Version: 1.0  
Content-Transfer-Encoding: 8bit

On 24-Jan-99 James Skalski wrote:

> I have used chassis punches for holes. That is the only way to go for easy  
> perfect holes. I have also uses the ...drill the corners and saw to  
> connect the corners..followed by a lot of filing,, method..  
> A sabre saw has been helpful for the rough cuts.  
> A suggestion is to put masking tape on the chassis to prevent scratching  
> the chassis when using the saw. Also I suggest undercutting the hole and  
> filing to get a precise size.  
>  
> The right tools are always easier to use.

Any suggestions on where people can purchase \*inexpensive\* chassis punches?  
I'm particularly interested in D-connector punches, but I've never found anyone  
who sells them for less than \$80-\$100.00 each! I'm certainly not going to  
punch enough holes to justify spending that much money.

- Rich

--

Rich Mulvey  
<http://mulvey.dyndns.com>  
Amateur Radio: aa2ys@wb2wxq.#wny.ny.usa

-----

Date: Sun, 24 Jan 1999 14:30:55 EST  
From: N7YA@aol.com  
To: qrp-l@lehigh.edu  
Cc: cw@qth.net, dx-list@makelist.com, qrp@qth.net, ham-radio-history@egroups.com,  
lowpowerdx@egroups.com  
Subject: [30734] Bugs and Keys....new list.  
Message-ID: <e5fa1892.36ab74ef@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hi Kids, I was having such a fun time with my first list, Low Power DX, that i  
decided to create a new one...Bugs And Keys, its devoted to discussion of  
manually operated morse instruments....hand pumps and leafsprings! but talk  
of any morse equipment is welcome. why another list you ask??.....why not!!!

i did it because i just felt like it!! the cw list is cool, but it covers a more broad spectrum concerning the code....Bugs and Keys just talks about the instruments only. parts suppliers, techniques and models of various make, antique and modern...it doesnt matter, join up and share your knowledge!

to join, just let me know or send a blank email addressed to: BugsandKeys-subscribe@egroups.com hope to see you all there.

73...Adam, N7YA

-----  
Date: Sun, 24 Jan 1999 14:06:36 -0600  
From: "J. W. (Dub) Thornton" <dub@oklahoma.net>  
To: qrp-l@lehigh.edu  
Subject: [30735] Re: Noise in Receivers (Was OLD RADIO OR NEW?) HELP!  
Message-ID: <199901242009.0AA22282@ultra5.oklahoma.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

>I don't know what price range you are looking at for used rigs, but I  
>think the following used rigs are good values and won't break the bank;  
>ICOM 730 (Ham band only), 735, and 745, Kenwood TS830, TS930 and TS-940,  
>Ten-Tec Omni-D and Corsair. All of the above have the WARC bands. If you  
>want the "old bands" only you can also consider the Kenwood TS-820 (tube  
>finals) which has a fine receiver.

What a fine job of giving info to some of the newer members of our Klan.  
Would  
just  
like to add a couple comments. The Kenwood TS830 is also a "hybrid" rig, with  
tubes  
in finals and driver.

The WARC bands were optional in the Ten Tec Omni series, thus may or may  
not be

present. In the series "A" , 17 meters is not supported. I believe this is  
also true of the  
series "B", while the series "C" supports all three WARC bands. WARC band  
crystals are  
still available from Ten Tec for the Omni series. The designation Omni A or  
Omni D on  
the front of the radio identifies it as "A" for analog dial, "D" for digital  
dial, and may be either the series "A" (original model) or "B" (first updated  
model) The designation Omni on the front of the radio, with no letter  
identifies the radio as the Omni C, (final model in the original Omni series)  
and was made in digital only.

Slight clarification to an excellent post. "72"

-

J. W. (Dub) Thornton) WA5YFY  
Minco, OK.

-----  
Date: Sun, 24 Jan 1999 15:18:36 -0500  
From: Sam Billingsley <SBillingsley@usaninc.com>  
To: "Qrp1\_Submit (E-mail)" <qrp-1@Lehigh.EDU>  
Subject: [30736] RE: HW-9 BCI Bleed Through on 80/40/30 \*\*\*\*\*SOLVED\*\*\*\*\*  
Message-ID: <21E06269B00ED111BE9B00805F6D0FA35F9479@MAILSERVER1>  
MIME-Version: 1.0  
Content-Type: text/plain

I want to thank the following folks for excellent responses:  
KC5SCC, WB2VU0, W7DB, KD40BQ and WE6W.

Since my external Field Day 40 mtr BANDPASS filter eliminated the BCI on 40mtrs with the HW-9 and I definitely wanted to use it on all bands 80 through 10 I decided to try to use a generic High Pass Filter to attenuate all frequencies below 3.5 MHz with the AM broadcast band at least -40 dB atten.

I started with a review of my reference books and came across a generic HP filter in W1FB's QRP Notebook on pg. 160. It's a 5pole Chebychev with a fco of 3 MHz and ripple factor of 2 dB. I modeled it on the ARRL Radio Designer software and it looked as advertised. So I ugly constructed one and put it into the Field Day switched filter box I already had wired for 40 mtr BP in a different position. Start listening on 80/40/30 NO BCI !!!!! But when I try to Transmit through it on 80/40/30 ZERO output. Hummm. I getting tired it's 2AM so I hit the bed. I remember in the morning that I try this same circuit with the PIXIE about 5 months ago and thought at the time that it was too lossey so abandoned it and switched to a multi-notch approach at solved both the AM and foreign broadcast overload.

So I pulled out the ARRL Handbook 1997 and looked at the various HighPass filter discussions and tables. I notice that the values used in the W1FB circuit and the ARRL Handbook tables are significantly different. Thinking that the QRP Notebook could have a typo I picked a configuration that worked with my available caps.

Walla! Configuration #40 ARRL Handbook 1997 pg. Ref.30.27 fco 3.01 MHz with -40 dB point at 866 kHz was my choice and it works great. If I tune up the longwire antenna via my LDG tuner and then switch to the filter I see no output level difference on the forward power of the SWR and no change in the Ref. SWR. That's the good news. the bad news is that I missed the Hot Water contest but at least I have a rig that should work from this point on. The

difference on receive for 80/40/30 mtrs is dramatic. From an non-useable receiver to one that sounds FB.

Sam Billingsley      AE4GX    Atlanta, GA

>>>> snip >>>

I finally got around to using my HW-9 in preparation for the HW contest this  
> weekend. I ran into an interesting problem. On 80 and 40 and a little on  
> 30  
> mtrs I can pickup BCI. Now I expected this on the PIXIE and even the HW-8  
> but not the HW-9.  
>  
> BTW the HW-8 doesn't seem to experience this problem. The PIXIE has an  
> extensive Front-end notch filter for this. My ICOM 756 is FB.  
>>> snip >>>

> Anyone had BCI overload problems like this with the HW9? I expected this  
> would my HW7 and HW8 but not the HW9.  
>  
> Any suggestions before 1600Z tomorrow?  
>  
>

-----  
Date: Sun, 24 Jan 1999 15:17:37 -0500 (EST)  
From: James Skalski <jskalski@buffnet.net>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [30737] Re: FS Yaesu Manpak/tuner  
Message-ID: <Pine.LNX.4.03.9901241517060.792-1000000@valhalla.valhalla.buffalo.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

The Manpak is gone.

73,

Jim N2go

-----  
Date: Sun, 24 Jan 1999 15:22:57 EST  
From: Ed Loranger <we6w@juno.com>  
To: pmk@juno.com  
Cc: qrp-1@Lehigh.EDU

Subject: [30738] Re: 1999 QRP-L Heathkit Hot Water Sprint (HHWS)<<<< Reminder>>>>  
Message-ID: <19990124.122427.4775.1.we6w@juno.com>

Patrick and Gang. I had the requisite fun, for sure.

Got 11 QSO's and only worked the 40 meter band near  
7041 KHz.

I worked 3 HW rigs so my total score = 3 points.

Setup here:WE6W/Ed Loranger  
OHR-100 at 5 watts, Les Logan Bug, 40 Meter folded  
dipole fed with 300 Ohm foam twinlead.  
Standard Exchange: RST CA OHR100  
1/23/1999:  
UTC Call RECEIVED Sent  
1447 K0EVZ 559 ND OHR500 599

1/24/1999:  
UTC Call RECEIVED Sent  
1604 AB5PC 599 CA OHR500 599  
1617 AB7MY 579 AZ HW9 579  
1631 W7SSM 599 CA HW8 599  
1648 AD6GI 599 CA SIERRA 599  
1659 AD6HR 599 CA HW8 599  
1758 W7CSK 449 WA KNWD930 459  
1822 K7MPH 569 OR SIERRA 579  
1841 K6WHP 579 CA OHR100 579  
1852 WA6BFT 599 CA OMNI6 599  
1939 WE6E 599 CA YAESU990 599  
(WE6E:BEEN HOPING TO WORK JERRY FOR 6 MONTHS NOW!)

3 HW RIGS=3 POINTS.

Nearly all were rag chews! Now that was great.

Thanks for the contest.

-Ed Loranger WE6W

72, Ed WE6W, AR Millennium QSO's=191/2000

<http://www.qsl.net/we6w> Radio, everyday in Santa Rosa, CA

QRP-L#1068 AR#112 QRP-Z#106 ARCI:9397 Norcal#2227 QAA#006

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-----  
Date: Sun, 24 Jan 1999 15:33:14 -0500  
From: "Bill Legge, NT1R" <wlegge1@maine.rr.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [30739] FS: 1995 QRP Quarterly's \$12.-  
Message-ID: <199901241937.0AA01962@proxyb2-atm.maine.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Forsale are the January, April, July and October issues, Price includes shipping to lower 48. Bill Legge, NT1R in Yarmouth, ME  
QRP-L #912

-----  
Date: Sun, 24 Jan 1999 13:36:12 -0700 (MST)  
From: Joe Gervais <vole@primenet.com>  
To: qrp-l@Lehigh.EDU  
Subject: [30740] [ FYBO ] Winter Gear List for Field Ops  
Message-ID: <199901242036.NAA04017@usr09.primenet.com>

Howdy Folks,

OK, still buried and have resigned myself to the fact that it ain't gonna change for the next year or so. :-)

Less than two weeks to the FYBO Winter QRP Field Day!  
(See <[www.extremezone.com/~ki7mn](http://www.extremezone.com/~ki7mn)> for complete info.)

I've recently added a list of gear I take with me when I go snow camping, figured it might help some of you get some ideas on what may be nice/necessary to bring during your wintery operations.

Check out the "Gear" section of my Ultralight Backpacking website <[www.primenet.com/~vole/ultralight](http://www.primenet.com/~vole/ultralight)> if you're interested.

Safety first! Followed very closely by fun. :-) I'll force myself to shake loose from work and get the FYBO Prize List out tomorrow. Somewhere between attacking the email backlog and doing the last few BUBBA logs. :)

More to follow tomorrow. Hope one of you takes pity on



us southwestern critters and sends some actual snow our way. If I can't have snow for FYBO, I may as well operate from the beach. :-)

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"It's hard to be unhappy when you have warm feet."  
- Dave, Fellow Snow Camper

FYBO Winter QRP Field Day - Feb 6th - See <[www.extremezone.com/~ki7mn](http://www.extremezone.com/~ki7mn)>

-----  
Date: Sun, 24 Jan 1999 15:59:51 -0500 (EST)  
From: Michael Gray Anthony <[mganthon@unity.ncsu.edu](mailto:mganthon@unity.ncsu.edu)>  
To: [qrp-1@Lehigh.edu](mailto:qrp-1@Lehigh.edu)  
Subject: [30741] QRP Kit Project  
Message-ID: <Pine.SOL.4.05.9901241554580.3443-100000@n00111-104afc.unity.ncsu.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hello All,

Thank you all for responding to our post about our group's kit building project. We have taken your suggestions to heart and set up a web site to compare the various radios so we can make our final decisions. We have gathered as much data as we could from various web sources, but are still lacking some info.

We would appreciate it if you could help fill in our blanks. Here is the web site:

<http://w4atc.ncsu.edu/qrpcomp.html>

Thanks, and please forward responses to me,

Gray KE4QIU

-----  
Date: Sun, 24 Jan 1999 16:00:44 EST  
From: Ed Loranger <[we6w@juno.com](mailto:we6w@juno.com)>  
To: [mulveyr@iname.com](mailto:mulveyr@iname.com)

Cc: qrp-1@Lehigh.EDU  
Subject: [30742] Re: Metal Chassis cutting, how do you;  
Message-ID: <19990124.130208.4775.2.we6w@juno.com>

I would try Harbor Freight or Post Tool or similar.

I picked up a Pipe threader with 4 dies back in 1992 and it was \$59.00! They have tons of great stuff at these discount outlets. And that pipe threader makes great coil forms on RF safe PVC.

I wish I had some 'D' punches, but these Greenley circle punches are serving me well.  
72, Ed WE6W, AR Millennium QSO's=191/2000  
<http://www.qsl.net/we6w> Radio, everyday in Santa Rosa, CA  
QRP-L#1068 AR#112 QRP-Z#106 ARCI:9397 Norcal#2227 QAA#006

On Sun, 24 Jan 1999 14:14:36 -0500 (EST) Rich Mulvey <mulveyr@iname.com> writes:

<snip for brevity>

> Any suggestions on where people can purchase \*inexpensive\* chassis punches?

>I'm particularly interested in D-connector punches, but I've never found anyone

>who sells them for less than \$80-\$100.00 each! I'm certainly not

>going to

>punch enough holes to justify spending that much money.

>

>- Rich

>

>--

>Rich Mulvey

><http://mulvey.dyndns.com>

>Amateur Radio: aa2ys@wb2wxq.#wny.ny.usa

>

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or call Juno at (800) 654-JUNO [654-5866]

---

Date: Mon, 25 Jan 1999 22:35:00 -0600  
From: k5zty@juno.com  
To: qrp-1@lehigh.edu  
Subject: [30743] HW contest  
Message-ID: <19990125.223558.10382.1.k5zty@juno.com>

Greetings to all the HW ops,

I didn't make as good a showing as I had hoped to in the HW contest but had a good time anyway. I tried 40 meters at 6:00am cst but there was a thunderstorm somewhere around because the static crashes were full scale on my signal meter. It's not a genuine 'S' meter but it wiggles when a signal come thru it and makes my ol' HW8 look like a big rig. Between the static and the foreign BC I gave up at about 6:45am and went to breakfast with the local club.

Too many activities in this part of town on Saturday A.M. to get back to the rig before 10:00am so I didn't make a single contact on Saturday. On Sunday I was at the switch at 16:00z and started calling CQ on 20 meters. However the old DC receiver was feeling generous and was letting a big bunch of BCI thru. I tried to detune the preselector and turn down the RF gain but I could only make 3 contacts on 20. It really makes me appreciate the superhet receiver. I did work Cam, HP1AC, in Panama before giving up on 20. I moved to 15 meters at 16:41z and heard Gary, AB7MY, loud and clear and thought 'Here we go' but it turned out that he was the only one there. Kinda slow. So I quit for a while and got into another project for a couple of hours. When I came back at 18:58z there was some action. Made 8 contacts over the next hour and worked Cam in Panama again. Also worked the contest manager, Pat, KD4OBQ.

Made 12 contacts, worked 9 other HWs for a score of 21.

Good job Pat, thanks for putting on the contest.

72,  
Bill, K5ZTY  
Houston, TX  
k5zty@juno.com

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or call Juno at (800) 654-JUNO [654-5866]

-----  
Date: Sun, 24 Jan 1999 16:08:37 -0500  
From: Russ Hines <radioruss@fuse.net>  
To: cd25d@clnk.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [30744] Re: OKAY Stupid Newbie ??  
Message-ID: <36AB8BD5.2FF7263A@fuse.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Newbie maybe, stupid not. You knew to ask.

The WARC bands are those HF bands U.S. amateurs received in the mid '80's, through the World Amateur Radio Conference of 1979.

They are:

30 meters - 10.1 to 10.15 Mhz  
17 meters - 18.068 to 18.168 Mhz  
12 meters - 24.89 to 24.99 Mhz

I know the freq's are correct, though the history may be off. Too many lost brain cells, I guess. ;-)

73,  
WB8ZCC

Bill Slater wrote:

>  
> What are WARC bands?????  
> Bill & 73 cd KD5GCX

-----  
Date: Sun, 24 Jan 1999 16:14:37 -0500  
From: "Bill Legge, NT1R" <wlegge1@maine.rr.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [30745] QRP Quarterly's are spoken for.  
Message-ID: <199901242018.PAA06792@proxyb2-atm.maine.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Bill Legge, NT1R in Yarmouth, ME  
QRP-L #912

-----  
Date: Sun, 24 Jan 1999 14:20:07 -0700  
From: W6RCecila <w6rca@ibm.net>  
To: qrp-l@lehigh.edu  
Subject: [30746] More on Short Verticals  
Message-ID: <36AB8E87.4971@ibm.net>  
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Let's say one has a full size 40m vertical with eight quarter-wavelength radials. Let's say one wants to reduce the height without appreciably sacrificing performance. Let's say one makes a top hat out of eight fiberglass CB whips. How much could we reduce the height?

I've modeled such an antenna with EZNEC and the height would shrink to ten feet tall. EZNEC sez the feedpoint impedance is 7.5 ohms and the performance is within 0.2dB of the full size vertical.

Double all those dimensions and one gets a 20 ft tall vertical for 75m.

--

73, Cecil, W6RCA <http://www.bigfoot.com/~w6rca>

-----

Date: Sun, 24 Jan 1999 16:32:54 -0500 (EST)  
From: James Skalski <[jskalski@buffnet.net](mailto:jskalski@buffnet.net)>  
To: [qrp-1@Lehigh.EDU](mailto:qrp-1@Lehigh.EDU)  
Subject: [30747] FS Homebrew 40m rig  
Message-ID: <[Pine.LNX.4.03.9901241601540.883-100000@valhalla.valhalla.buffalo.edu](mailto:Pine.LNX.4.03.9901241601540.883-100000@valhalla.valhalla.buffalo.edu)>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have a homebrew rig that someone may be interested in. It was built in a Radio shack metal cabinet (black lid, cream colored main cabinet) 8" wide x 6" deep x 3" high. The plastic is still on the cabinet.

The following is mounted on the chassis.  
National vernier drive with 3-3/4" x 2-3/4" logging scale 1-3/8" matching knob with chromed insert. Very smooth with no backlash. This item can be found in some very old handbook projects and is like new. It would be nice on a multiband rig as it has 4 scales and some extra blanks.

The boards inside are from Far circuits, built by yours truly, for the Ugly weekender project transmitter board, receiver board (with SBL1 mixer) and the vfo board. The vfo is mounted in a pcb enclosure.

In addition I have a Kanga R2 board that fits in the case. It can be used

with the transmitter and VFO instead of the Weekender Tx board.  
An SMA connector is mounted on the vfo enclosure for use with the phase shifter . Teflon coax with sma connectors are on the R2 board to mate with the phase shifter which has sma bulkhead connectors on its mini extruded aluminum enclosure.

The high audio output pads for the have lifted off. I used the 2 transistors for something else and messed those pads. I wanted to use the headphone audio to save on battery drain. I also have a mini circuits psc2 (?) splitter that isn't installed. The R2 has two SBL-1 mixers on board.

If anyone was thinking about building any of these... you have a great start. I can't split the vernier. It is a perfect fit. It looks like the Jackson Brothers ,scale calibrated 0-100 with spaces for your own calibration points on A,B,C scales, a hair-line pointer.

Only people on this list would have a clue as to what this stuff is :-)  
Also they would know what it is worth to them. Make an offer.

I am trying to thin out things that I haven't used in the past year.  
I just don't have the time.

73,

Jim N2go

-----  
Date: Sun, 24 Jan 1999 16:39:47 -0500  
From: "Ed Tanton" <n4xy@mindspring.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, "'HomeBrew'" <homebrew@qth.net>  
Cc: "Roger A. McCarty" <rmccarty@earthlink.net>  
Subject: [30748] RE: [HomeBrew] Metal Chassis cutting, how do you;  
Message-ID: <001401be47e2\$10439c80\$01010101@n4xy>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="Windows-1252"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hi Roger... there are essentially 3 ways to make holes in metal available to

the "average" hobbieist:

1) Electric drill. You CAN put a number of holes in a panel, keeping ALL the holes INSIDE the outline, until you can hack saw it into your needed hole outline. Finish with a flat file. Difficult, lots of work... but the only way for 1/8 inch or more thick panels-such as rack mount panels, etc.

2) Hole saws, saws in general, and punches, both single and a hand-tool that punches various holes in thin metal up to probably 0.080" maybe a little less. Hole saws aren't pretty, but they DO work... but if it isn't a circular hole, it's a LONG way to a square hole; you can use a saber saw on large panel holes, and do pretty good holes... you'll still probably need some work with a flat file though; single-sized hole punches have gone up faster and higher than 75S3-Cs! Relatively speaking. There are all sizes and even SOME square shapes. Limited thickness capability... but a great, clean, hole. I think you could buy a nice clean 75S-1 for the price of their D-punch for the DB-25 RS-232 connector. (Maybe an exaggeration, but still a lot of money.) There ARE cheap punches around-but they are not worth it in my book.

3) Nibblers and a power nibbler. There are 2 styles of nibbler around: one, by Adel, all black metal, that if its shape were described as a 'V', both legs of the 'V' are the same length. The other is a little longer, and the squeeze 'handle' is plated bright metal. They both work about the same... removing a small piece of metal with each bite (hence the term "nibbler") about 1.5-2mm 'deep' by ~4-6mm wide. I happen to like the Adel better, but it's a little harder to get sometimes. I also have a power nibbler. This is an interesting tool from MicroMark (Tools). Works pretty well on appropriate-sized thicknesses. (All my sheetmetal stock is 0.061 aluminum sheet.) ALL nibblers are limited to a good bit less than 0.1" in thickness... meaning they'll do 0.060" aluminum sheet just fine-and probably 0.08"-I'm not certain, since most AL panel material is between 0.05 and 0.061 ". Forget steel nibbling. You CAN do it... but it's a bitch to do by hand, and it wears your nibbler's bit. The worst material to nibble (or any saw blade but carbide) is fiberglass. It wears the daylights out of anything cutting it. You have to do what you must, but better to try and buy small circuit board material pieces surplus from The Electronic Goldmine (URL: <http://www.goldmine-elec.com/> ) or whoever-already some size you can 'standardize' on, than to ruin a nice bandsaw blade cutting it. If you HAVE to cut the stuff, I'd either get a carbide wire hacksaw blade, or use your regular hacksaw blade and figure on replacing it sooner than later.

MicroMark is a terrific supplier of hobbieist tools, miniature tools, and various items related to hobby activities. Their URL is:  
<http://www.micromark.com/> . Very nice people to do business with.

Hope this helps.

72 / 73 Ed N4XY email: <n4xy@mindspring.com>

-----  
Date: Sun, 24 Jan 1999 14:53:53 +0000  
From: Roger Hightower <n7kt@earthlink.net>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [30749] PSK31  
Message-ID: <36AB3401.BA6E18C0@earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

After reading the recent postings on PSK31, I'm interested in trying this.  
The only problem I have is that I don't own a sideband rig except for my IC-706.  
This looks like a fun portable mode using a laptop, but a small rig would be nice.

What are you folks using? Would one of the GM-XX rigs from Dave Benson work OK?

How about some details on your setup? Direct, please, unless you think the rest of the List might be interested.

--

72/73, de Roger, N7KT - QRP-L #62 - Zombie #006 - Mesa, AZ

-----  
Date: Sun, 24 Jan 1999 16:56:04 EST  
From: K2UD@aol.com  
To: qrp-l@Lehigh.EDU  
Subject: [30750] Not receiving posts too!  
Message-ID: <253b2c00.36ab96f4@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit  
Content-Transfer-Encoding: 7bit

I saw a post from someone who is not getting posts from this list this past weekend. I have been having the same problem. I do subscribe to the list, but the posts I've been getting are significantly less than the ones I've seen when logging onto the list.



Houston, do we have a problem?

72,

Howard Kraus, K2UD

-----  
Date: Sun, 24 Jan 1999 22:17:40 +0000  
From: "Caitlyn M. Martin" <cait.martin@ibm.net>  
To: qrp-l@Lehigh.EDU, vhf@w6yx.stanford.edu, thp@onelist.com  
Subject: [30751] FS: Tokyo HyPower HX-240 VHF->HF transverter  
Message-ID: <36AB9C03.EAD9F108@ibm.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hi, everyone,

I have a really rare Tokyo HyPower HX-240 VHF to HF Transverter. It uses a 2 meter rig as it's IF (2 to 5 watts input) to deliver 15 to 40 watts out in the high power position, and 1.5 to 4 watts out in the low power position for QRP operation, all modes. It has band switch positions for 3.5, 7, 14, 21, and 28 mhz, but the transmitting device is broadbanded and CAN work on the WARC bands. I have used it on 12 meters successfully. It also has a very effective preamp, and has performed extremely well with my little Yaesu FT-290R. You should be able to do even better if you have a feature-rich 2 meter transceiver that can be turned down below 5 watts. This unit is quite small, as in smaller than my FT-290R or most any HF rig on the market. The unit is in very good condition, some minor marks and scratches. The previous owner also wrote operating instructions in black marker on the bottom of the unit. (This is not visible in a normal operating position.) I have the power cord, but no manual or original box.

This transverter is ideal for a VHFer with a good 2 meter all mode rig looking to get into HF inexpensively, or a QRP'er or rover with a 2 meter all mode portable looking for a small, inexpensive rig to travel with.

If you are curious about what the transverter looks like, see:

<http://www.netferrets.net/images/temp/HX240.JPG>

The price is \$225 shipped in the US, firm, which is way less than I paid for it.

Thanks and 73,  
Caity

KU4QD

-----  
Date: Sun, 24 Jan 1999 16:36:06 -0500  
From: Donald E Sanders <w4bws@juno.com>  
To: k8dd@contesting.com  
Cc: qrp-1@Lehigh.EDU  
Subject: [30752] Re: Y2K Y1K Y0K  
Message-ID: <19990124.171648.3766.4.w4bws@juno.com>

Yeah, they had to go from fins to toes to count.  
Donald Sanders W4BWS  
694 E. Eau Gallie Blvd. Satellite Beach, FL 32937  
407-779-0222 Fax 407-779-0830  
W4BWS@juno.com  
My favorite QRP rig glows in the dark

On Wed, 20 Jan 1999 22:03:53 -0500 Hank Kohl K8DD <k8dd@contesting.com>  
writes:  
>Everyone is concerned over the problems with Y2K. It is really a  
>small  
>problem, a very small problem, switching from 1999 to 2000 and beyond.  
>  
>  
>Just think of the problems of Y0K (YzeroK) when the world went through  
>the conversion from counting down the minus BC years in a negative  
>direction to counting up the positive AD year numbers and counting in  
>a  
>positive direction. That must have been an absolute mess, and they  
>didn't even have computers!  
>  
>73 Hank K8DD  
>  
>

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or call Juno at (800) 654-JUNO [654-5866]  
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Date: Sun, 24 Jan 1999 15:24:44 -0700 (MST)  
From: flydnq7x@primenet.com (Floyd Smithberg)

To: n7kt@earthlink.net, qrp-l@Lehigh.edu  
Subject: [30753] Re: PSK31  
Message-ID: <199901242224.PAA28329@smtp04.primenet.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

I just got PSK31 going today using my TS850 and made one Q so far...been listening to others on this mode and most are newbies...have made only a few contacts. In the docs it mentions that one of the reasons for coming up with this mode was the fact that today's rigs are EXTREMELY stable compared to the older and maybe simpler rigs like some QRP rigs that tend to have just a little drift. The bandwidth used is only ~30Hz and tuning, even with TS850 is extremely critical...a few Hz off and nada. I had the same idea of using a QRP rig but after one day of tuning practice, don't think so...I'd suggest you try it though...it's amazing how you can have 100% copy with the sig barely audible and other louder digi QRM on both sides. Stability and slow tuning rates are a must even tho the program has fine tuning capability! With the proper equipment, this should become a very popular mode.

>After reading the recent postings on PSK31, I'm interested in trying  
>this.  
>The only problem I have is that I don't own a sideband rig except for my  
>IC-706.  
>This looks like a fun portable mode using a laptop, but a small rig  
>would be  
>nice.  
>  
>What are you folks using? Would one of the GM-XX rigs from Dave Benson  
>work OK?  
>  
>How about some details on your setup? Direct, please, unless you think  
>the rest of the List might be interested.  
>--  
>72/73, de Roger, N7KT - QRP-L #62 - Zombie #006 - Mesa, AZ  
>  
>  
73 Floyd NQ7X Phoenix ScQRPion

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Date: Sun, 24 Jan 1999 22:28:38 +0000  
From: Patrick M Kvitkauskas <pmk@juno.com>  
To: qrp-l@lehigh.edu  
Subject: [30754] HHWS Scores Dont forget ??? also need QRP-L# if you have one?  
Message-ID: <19990124.222932.6302.3.pmk@juno.com>

Well it looks like all had fun who was in the contest.  
I did not fair so well as BCI was killing me so I will  
do something about it for the next one.

Get those scores in so I can post the results.  
Also should I post them with callsigns or keep  
them anonymous ???

Also should we do one of these twice a year  
or just leave it a annual ???

I'll have to sat I worked the 2 who are in the lead  
so far and had a really good time even though I  
only yielded 8 points. Next time I will not try so hard  
to chase down HW rigs as I only worked 3.

72  
Patrick KD40BQ  
HHWS manager            next contest 1-??-2000  
QRP-L# 1009  
pmk@juno.com

send pictures to  
pmk@netzero.net

AR

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Date: Sun, 24 Jan 1999 15:38:09 -0700  
From: Neil Klagge <w0yse@juno.com>  
To: qrp-l@Lehigh.EDU  
Subject: [30755] Info needed on PC-9000 HF xcvr  
Message-ID: <19990124.153810.-146797.0.w0yse@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain

Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Beloved Gang,

I am looking for info on the Patcomm PC-9000 HF tranceiver. Do any of you have one? If so I would like to read your impressions of the rig. I particularly would like to know how much current it might draw on receive. Please email me direct.

Thanks in advance,

72 , Neil, w0yse since '54 a QRP-L digest reader  
Now using only solar power <><

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Date: Sun, 24 Jan 1999 15:43:37 -0700  
From: "Bob Follett" <bfollett@ditell.com>  
To: "QRP-L Group" <qrp-l@lehigh.edu>  
Subject: [30756] RE: PSK31  
Message-ID: <004301be47ea\$fd291540\$3237b3cf@bfollett>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Gang:

Roger Hightower wrote:

<<The only problem I have is that I don't own a sideband rig except for my IC-706.  
This looks like a fun portable mode using a laptop, but a small rig would be nice.>>

The IC 706 is a very popular digital rig, and would be great for this mode.

The only problem I see is that it has a requirement for a Creative Labs sound card. I have four computers in the house, mine "emulates" a Creative Labs, and the PSK31 program doesn't show any output with my card. I tried

my wife's computer which has a real Creative Labs card, and the program worked without a hitch. (no transmitter in her office though :-( ).

Like Roger, I was thinking this would be a neat portable station with a laptop, but I would really be careful about picking a laptop that has sound card capabilities. Toshiba's Portege series says it has a "16-bit Soundblaster Pro", as does the IBM series -- but I would sure like to see if one of these worked with the PSK31 software before I upgraded laptops.

Of course the other option for us "build it yourselves", is to go with one of the DSP development kits, a small LCD reader, and integrate into, say, a Whitemountain 20M rig.

I will have to say, the copy potential of this digital mode is pretty amazing -- without any of the handshaking needed for the other popular modes.

73, Bob

-----  
Bob Follett AB7ST  
2861 Estates Drive (435) 649 6457  
Park City, UT 84060

-----  
Date: Sun, 24 Jan 1999 15:40:50 -0700  
From: W6RCecila <w6rca@ibm.net>  
To: qrp-l@lehigh.edu  
Subject: [30757] More on short verticals  
Message-ID: <36ABA172.54E5@ibm.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

If one has a full size 40m vertical and wants to use it on 75m, a top hat with 16 radials of 10ft each will come close to resonating it on 75m with only a sacrifice of 0.5dB according to EZNEC.

--

73, Cecil, W6RCA <http://www.bigfoot.com/~w6rca>

-----  
Date: Sun, 24 Jan 1999 16:07:06 -0700 (MST)  
From: af852@rgfn.epcc.edu (William R Colbert)

To: cd25d@clnk.com, qrp-1@lehigh.edu  
Subject: [30758] Re: OKAY Stupid Newbie ??  
Message-ID: <199901242307.QAA08312@rgfn.epcc.edu>

WARC = World Administrative Radio Conference (ITU function) which set up 30, 17 and 12 meter bands all of which came on line in 1980's starting with 30 meters (shared with commercial stations, amateurs are secondary) followed by 17 and 12 meter bands. Most refer to the bands as WARC since there is no amateur contesting, and on 30, no ssb allowed in most countries. Also, most of the older rigs such as the Yaesu FT7, FT301s, Heathkit HW7 & 8 do not have provisions for covering. Same with the mid 70's to early 80's vintage transceivers. Hope that answers your question - one doesn't learn until one asks a question.

73 Ray

--

--

Ray Colbert, W5XE  
00TC 3618, SOWP 1064M  
El Paso, Tx (FAR WEST TEXAS!)  
also: w5xe@juno.com

-----  
Date: Sun, 24 Jan 1999 15:16:24 PST  
From: "Alan Fryer" <n3bj@hotmail.com>  
To: qrp-1@lehigh.edu  
Subject: [30759] WTB: Wilderness Sierra  
Message-ID: <19990124231625.3523.qmail@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain

Wanted: Wilderness Sierra with KC2 and ABX in good working condition with band modules. Non-working/partially assembled unit or unit without KC2 considered.

Alan, N3BJ

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Date: Sun, 24 Jan 1999 18:22:44 -0500 (EST)  
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>

To: W6RCecila <w6rca@ibm.net>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [30760] Re: More on Short Verticals  
Message-ID: <Pine.GS0.3.96.990124180455.2949N-100000@moe.cas.utk.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Cecil,

I am assuming that the whips are straight line.

A hat can have any number of symetrically placed spokes, and so long as the spokes maintain symmetry, they will make a non-radiating (radiation self-cancelling) hat. The fewer the spokes, the longer they must be.

Another way to shorten the required spoke length is to use a perimeter wire connecting their tips. The effective length of the spoke is very roughly (models can make it precise) the spoke length plus about 1/2 the length of one of the connecting perimeter wires. A 4 spoke plus perimeter wire hat will be smaller than an 8 spoke hat--and lighter.

A vertical that is about 70% or more of full 1/4 wl size loses almost too little to mention with a hat. When the vertical gets shorter, the hat becomes even more important to sustain efficiency. Hats can also be used to shorten horizontal dipoles and beam elements, although they can be a bit ungainly in that application. The 10-meter 70% full size hatted 2-element beam I built as a test for the hat notes in my Communications Quarterly article on the subject could not be told from the full size 2-element beam at the same height. There are end loading technique notes at my site as well, comparing hats with other means of extending elements that do less well at symmetry than the hat for half size 80 meter verticals (scalable to other frequencies).

To retain the circular pattern of a vertical, a minimum of 3 spokes (or spoke + perimiter wire) are needed. Two wires, forming a Tee, as found in ON4UN's book or in the vertical dipole in an article by Rudy Severns some years back, are sufficient if you can accept some very minor ovalizing of the pattern in the direction of the hat wires. As everyone from ON4UN (and even before him) onward has noted, the need for radials with a short hatted vertical is identical with the need for radials with a full size vertical. (Those radials are the hat that makes up all of the other side of the antenna element, but in or on the ground, they need to be as many as possible. You will not improve things beyond about 120 radials, but try for about 30 as a minimum for a serious permanent installation--but not all in one weekend. Once in the ground, their exact length is less critical than above ground or in the top hat.)



LB, W4RNL

-----  
Date: Sun, 24 Jan 1999 16:38:45 MST  
From: "Jerry McCollom W0MC" <w0mc@hotmail.com>  
To: qrp-l@lehigh.edu  
Subject: [30761] FS: 38 Special + Doug Hauff Case + Tick 3  
Message-ID: <19990124233846.17267.qmail@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain

FS: 38 Special with the 5 watt mod, putting out about 3 watts. Enclosed in a Doug Hauff case. Includes the SuperTick keyer. All the hardware is included and the pots have the nice Mouser knobs. Also, I have a center-detent pot and switch installed in the case for the RIT mod, but THIS DOES NOT HAVE THE RIT MOD -- I did it, it was chirpy, so I uninstalled it, but the case looks nicer with the hardware installed.

\$80 shipped.

de Jerry W0MC            QTH Fort Collins, CO  
w0mc@hotmail.com        QRP-L #800

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End of QRP-L Digest 1346

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